SERV. 50 060

TELEFUNKEN
FERNSEH UND RUNDFUNK GMBH

GEBRAUCHSANWEISUNG
OPERATING INSTRUCTIONS
MODE D'EMPLOI
ISTRUZIONI D'USO
INSTRUCCIONES DE MANEJO
GEBRUIKSAANWIJZING
BRUKSANVISNING
BRÚGSANVISNING

M 9090 G

VHS
PAL

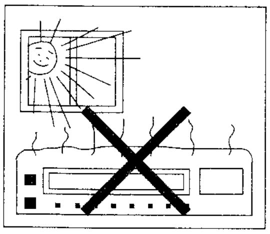
SOME INFORMATION BEFORE YOU START

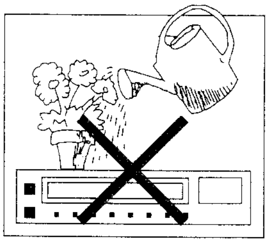
Safety information

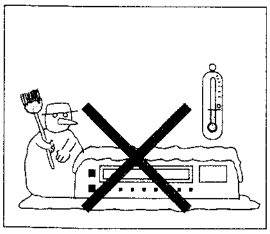
- Read the instruction manual before you start your recorder.
- Check that the voltage details quoted on the manufacturer's plate (back of recorder) are the same as your local mains electricity supply.
- Only allow qualified personnel to repair/service your recorder. This includes cleaning of video and sound heads.

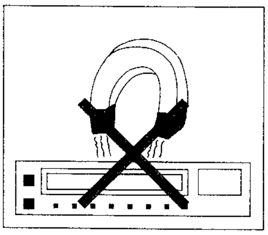
Operating safety

- Never start your video recorder immediately after removing from an unheated room into a warmer room. Condensation forming on the video head drum can cause damage, which can be avoided. Wait until your video recorder has adjusted to room temperature (approx. 2 hours).
- Only use your recorder on a flat stable surface.
- Never cover up the ventilation slots on the top and bottom of the recorder.
- Disconnect the mains plug from the mains socket if any objects/liquids fall into the recorder or if the recorder starts to smell or smoke. Have the recorder thoroughly checked by a qualified technician.
- It is also recommended that you disconnect the power supply and the antenna cable during thunderstorms (lightning strikes!).
- Only clean your recorder with a soft, lint-free cloth. Use only standard cleaning agents (not alcohol!).









Guarantee

When making your purchase ensure that your TELEFUNKEN dealer fills out the attached guarantee card before giving it to you. At time of purchase check that the enclosed equipment passport is fully completed and returned to you and keep it together with the invoice. You must present these items to your dealer when making guarantee claims.
Please note that unauthorized tampering with the equipment cancels your guarantee entitlement.

SHOWVIEW

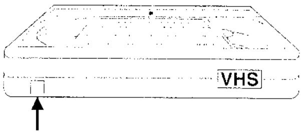
ShowView makes timer controlled recording of programs with your video recorder as simple as making a telephone call.
You need to enter the local ShowView channel ID numbers only once into your video recorder. You will find these in a list in your TV guide (pages 36/37).
To program the timer for recording all you need then do is to enter the number given for the program in the TV guide just like a telephone number (page 46).

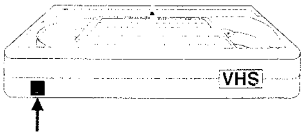
ShowView is a registered trademark and is licenced by the Gemstar Development corporation.

Cassettes

Only use video cassettes marked "VHS".

- Dust and moisture will damage your cassettes. We recommend that cassettes are always stored in a vertical position, fully rewound in a protective dust cover.
- Keep your cassettes away from magnetic fields.





To avoid recording over (i.e. erasing) any tapes by mistake, you can protect recordings with the safety tab which is located on the back of all cassettes.

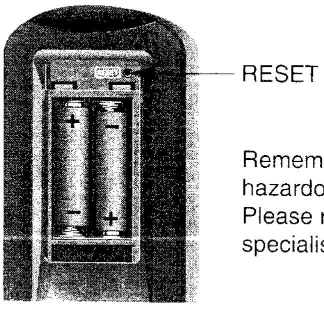
- Break out the safety tab if you wish to prevent recording.
- To record on cassettes with the safety tab removed cover the safety opening with a piece of sticky tape.

All cassettes available from the specialist retail trade are subject to certain production tolerances. Any large deviations, i.e. in tape length, will prevent the recorder calculating the correct tape remain time. We therefore recommend only cassettes from quality manufacturers.

This is a reminder that recording any material with copyright protection without the express permission of the copyright holder may be an infringement of the law.

Setting up the remote control

- Insert the batteries as shown.
- Point the remote control at the video recorder. There must be a free line of sight between the remote control and the video recorder.



Remember all batteries are hazardous waste.
Please return them to your specialist retailer.

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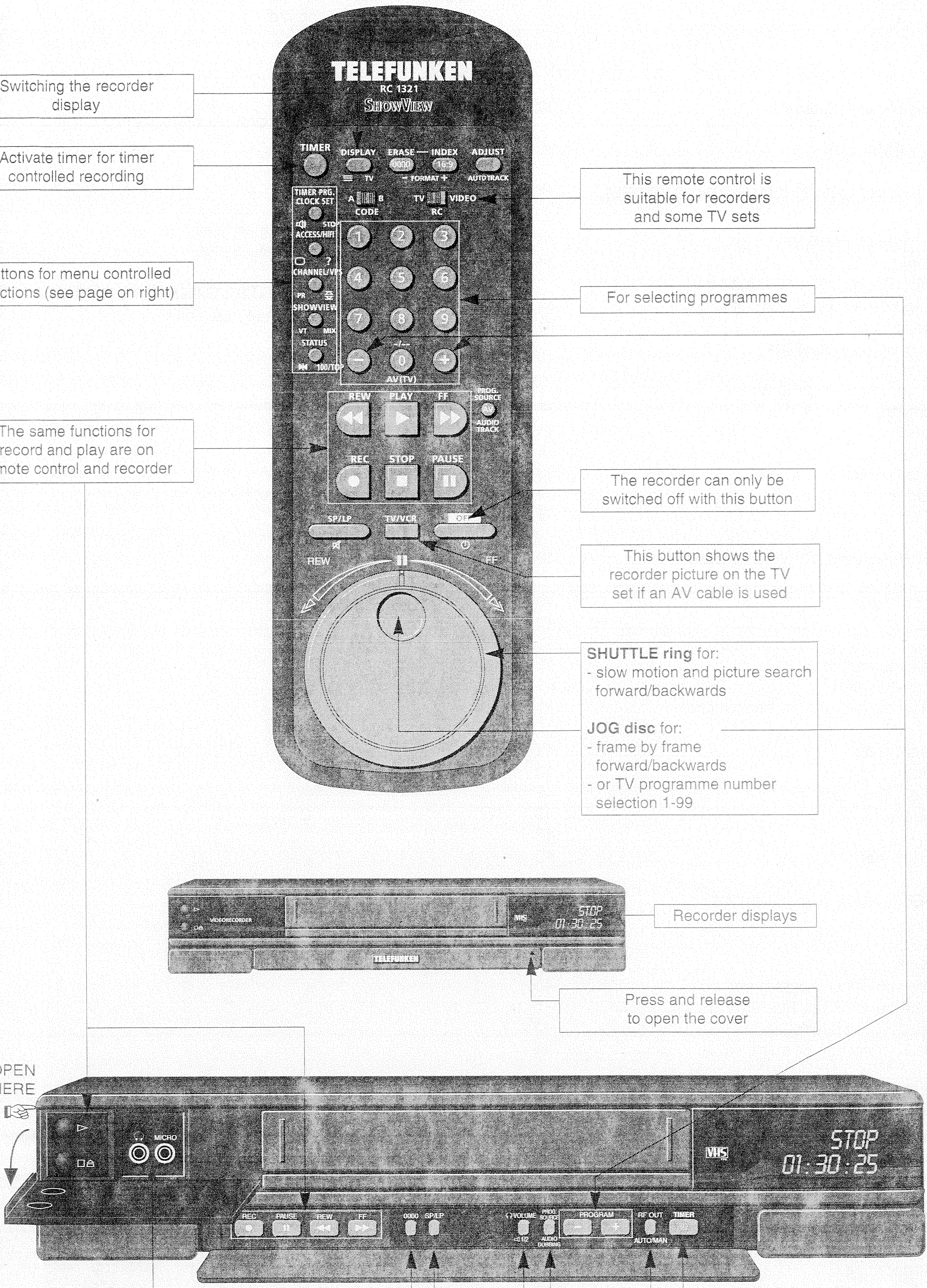
CONTROL ELEMENTS


TELEFUNKEN
RC 1321
ShowView
TIMER
DISPLAY
ERASE — INDEX
ADJUST
0000
16:9
TV
FORMAT
AUTO TRACK
TIMER PRG.
CLOCK SET
A
B
CODE
TV
VIDEO
RC
STOP
ACCESS/HIFI
?
CHANNEL/VPS
PR
SHOWVIEW
VT
MIX
STATUS
100/TOP
1
2
3
4
5
6
7
8
9
-/--
0
AV(TV)
PROG.
SOURCE
AV
AUDIO
TRACK
REW
PLAY
FF
REC
STOP
PAUSE
SP/LP
TV/VCR
OFF
REW
FF
VIDEORECORDER
STOP
01:30:25
TELEFUNKEN
OPEN
HERE
MICRO
VHS
STOP
01:30:25
REC
PAUSE
REW
FF
0000
SP/LP
VOLUME
PROG. SOURCE
PROGRAM
RF OUT
TIMER
AUDIO DUBBING
AUTO/MAN

Switching the recorder display

Activate timer for timer controlled recording

Buttons for menu controlled functions (see page on right)

The same functions for record and play are on remote control and recorder

This remote control is suitable for recorders and some TV sets

For selecting programmes

The recorder can only be switched off with this button

This button shows the recorder picture on the TV set if an AV cable is used

SHUTTLE ring for:
- slow motion and picture search forward/backwards

JOG disc for:
- frame by frame forward/backwards
- or TV programme number selection 1-99

Recorder displays

Press and release to open the cover

Sockets for headphones and microphone (dubbing)

Buttons for special functions

Activate timer for timer controlled recording

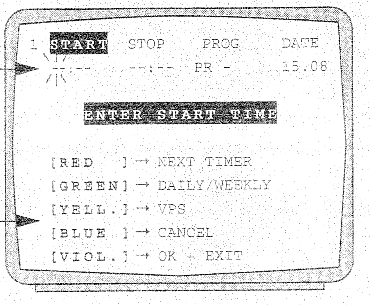
Call the menus to screen

using the colour coded keys

Make your choice using the colour coded keys

Enter numbers on the DIGITAL NUMBERS

TIMER controlled recordings



1 START STOP PROG DATE

--:-- --:-- PR - 15.08

ENTER START TIME

[RED] → NEXT TIMER

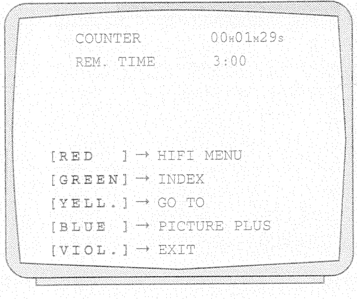
[GREEN] → DAILY/WEEKLY

[YELL.] → VPS

[BLUE] → CANCEL

[VIOL.] → OK + EXIT

SEARCH and FIND, HIFI



COUNTER 00h01m29s

REM. TIME 3:00

[RED] → HIFI MENU

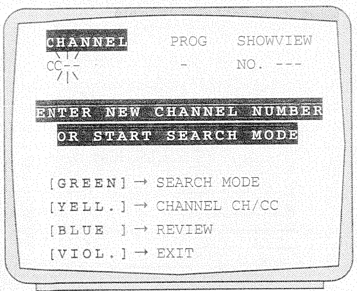
[GREEN] → INDEX

[YELL.] → GO TO

[BLUE] → PICTURE PLUS

[VIOL.] → EXIT

CHANNEL set



CHANNEL PROG SHOWVIEW

CC-- - NO. ---

ENTER NEW CHANNEL NUMBER

OR START SEARCH MODE

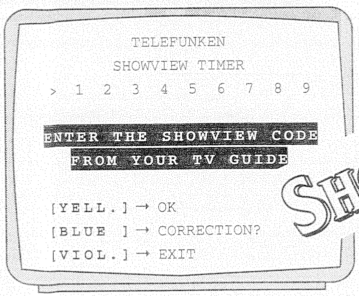
[GREEN] → SEARCH MODE

[YELL.] → CHANNEL CH/CC

[BLUE] → REVIEW

[VIOL.] → EXIT

TIMER controlled recordings



TELEFUNKEN

SHOWVIEW TIMER

> 1 2 3 4 5 6 7 8 9

ENTER THE SHOWVIEW CODE

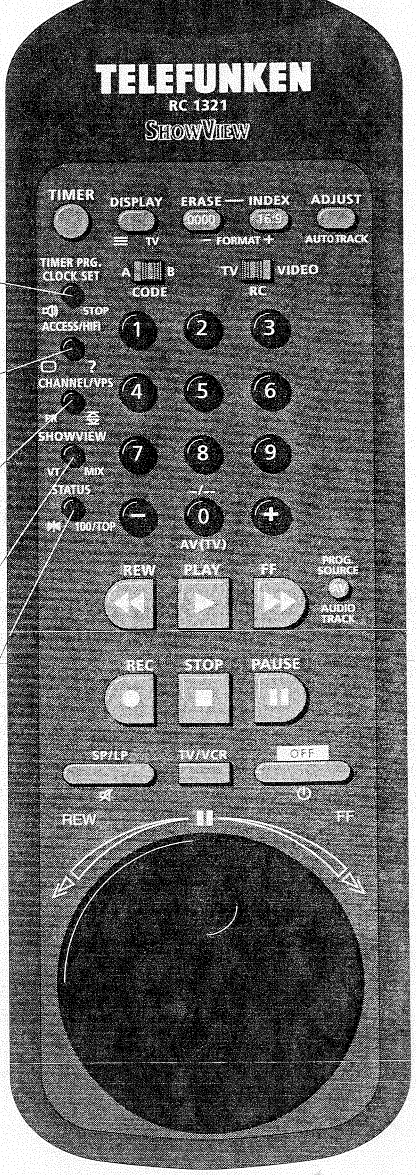
FROM YOUR TV GUIDE

[YELL.] → OK

[BLUE] → CORRECTION?

[VIOL.] → EXIT

SHOWVIEW


TELEFUNKEN
RC 1321
SHOWVIEW
TIMER
DISPLAY
ERASE — INDEX
ADJUST
0000
16:9
TV
− FORMAT +
AUTO TRACK
TIMER PRG. CLOCK SET
A B
CODE
TV VIDEO
RC
STOP
ACCESS/HIFI
1
2
3
CHANNEL/VPS
4
5
6
PR
SHOWVIEW
7
8
9
VT MIX
STATUS
100/TOP
−/--
0
+
AV(TV)
REW
PLAY
FF
PROG. SOURCE
AUDIO TRACK
REC
STOP
PAUSE
SP/LP
TV/VCR
OFF
REW
FF
RED
GREEN
YELLOW
BLUE
VIOLET

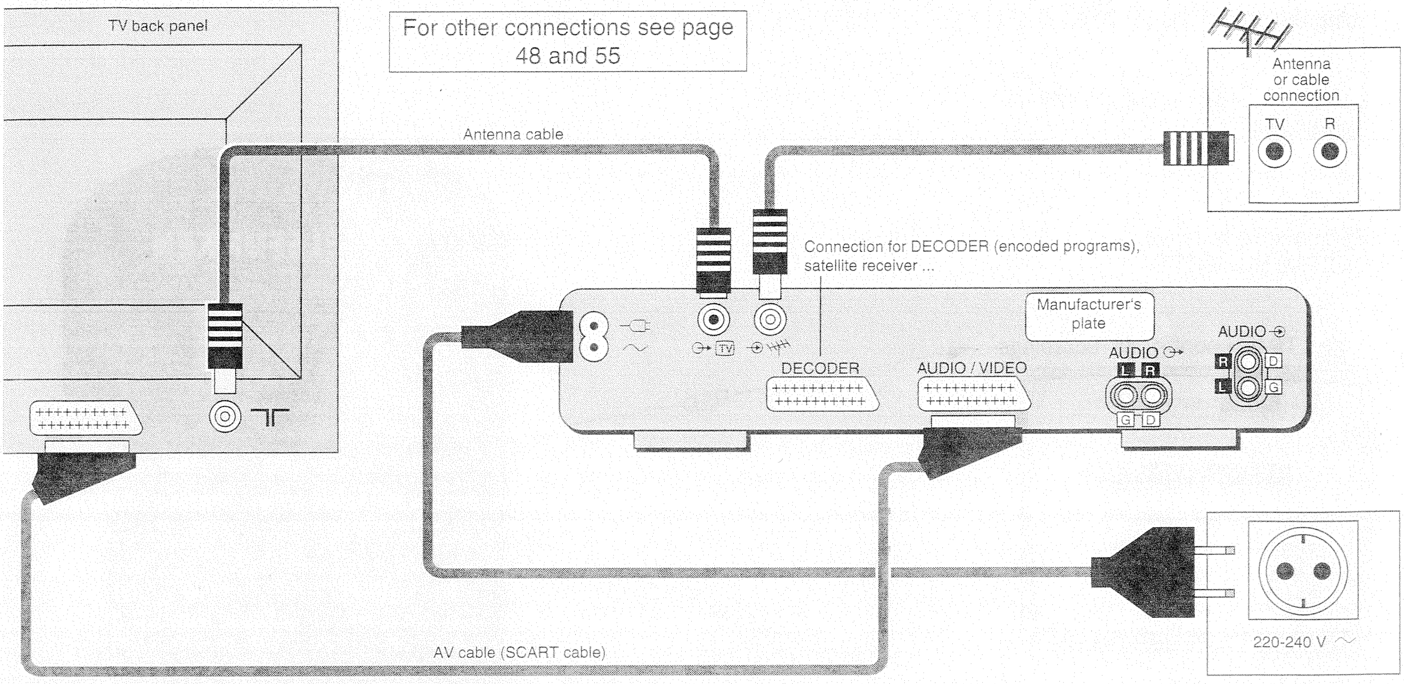
Leaving the menus

* Mistake or change?

Move to the input field in question with – / + or the **JOG disc** (the field flashes) and enter the change.

SETTING UP YOUR RECORDER

Connecting up


TV back panel
Antenna cable
Antenna or cable connection
TV
R
Connection for DECODER (encoded programs), satellite receiver ...
Manufacturer's plate
DECODER
AUDIO / VIDEO
AUDIO
L
R
G
D
AV cable (SCART cable)
220-240 V ~

For other connections see page 48 and 55

Antenna

1. Remove the antenna plug from the antenna socket of your TV set.
2. Insert the antenna plug into the VCR antenna socket ⊕.
3. Connect the TV socket ⊖→ TV on the recorder with the antenna socket on the TV set using the cable supplied.

! The circuit is needed to supply both the built in tuner of the recorder and the TV set tuner with TV signals.

AV - Audio/Video

Connect the video recorder and the TV set additionally with an AV cable (SCART cable: fully wired).

This connection offers certain advantages:
- best picture and sound quality with less interference,
- automatic switch on (from standby) and switch over of the TV to the VCR when for example play starts,
- timer controlled switching on/over of the TV set to a specified channel (timer for TV set),
- external recording control.

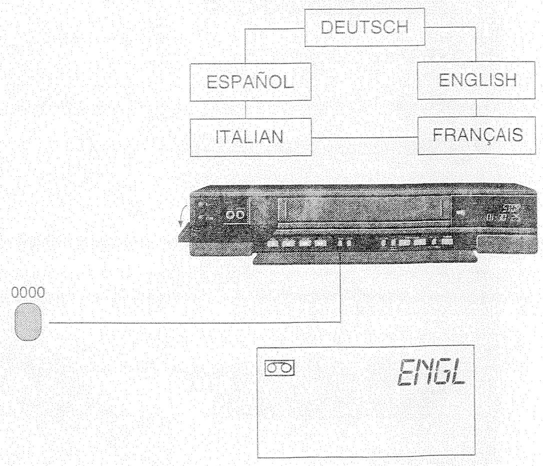
Power

Connect the power socket of the video recorder to the mains electricity socket using the power cable supplied.

Select menu language

Press the button marked **0000** on the recorder and hold for approx. **3 seconds**.

Repeat until "your" language appears in recorder display.


DEUTSCH
ESPAÑOL
ENGLISH
ITALIAN
FRANÇAIS
0000
ENGL

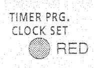
If you have no AV cable...

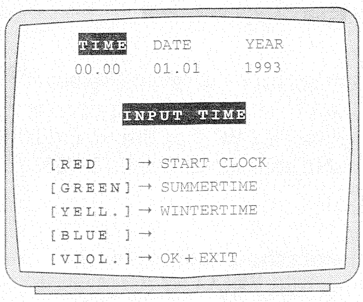
... you must tune your video recorder and your TV set.

The recorder is set at the factory to transmit on CHANNEL 60 (UHF) via the antenna cable to the TV set.
To ensure that your TV receives the recorder signal properly you must tune one of the TV programme numbers (presets) to this channel.

1. Press the **RED** button on the recorder remote control to use the menu as the "test picture".
2. Search for the VCR test picture on channel 60 on the TV set (follow the TV instruction manual for channel setting).

   Store the "test picture" to a programme number (VCR programme number) on the TV set.





TIME DATE YEAR
00.00 01.01 1993

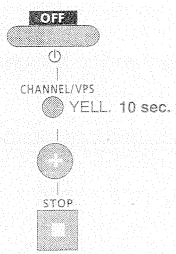
INPUT TIME

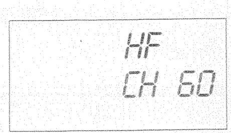
[RED] → START CLOCK
[GREEN] → SUMMERTIME
[YELL.] → WINTERTIME
[BLUE] →
[VIOL.] → OK + EXIT

Channel 60 already in use (poor quality picture)?

In this case you can adjust the recorder to broadcast on a different channel, between CH 51 and 66.

1. Switch the video recorder off with the button **OFF**.
2. Press the **YELLOW** button on the recorder remote control for approx. **10 seconds.**
3. Set a different free TV CHANNEL using the + button.
4. Repeat step 2 above to search for the test picture on the TV set.
5. Store this setting on the recorder by pressing **STOP**.

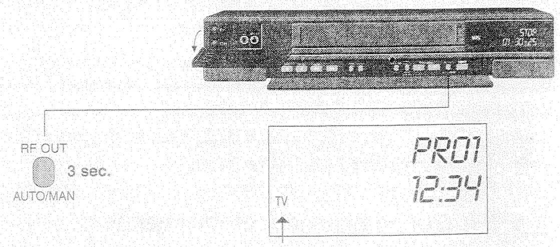


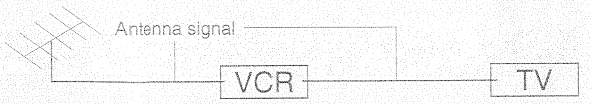


Interference on channels 51 – 66?

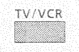
Can't get a good clean picture of the VCR test picture on the TV set? In this case first select the picture which has the least interference, as above.

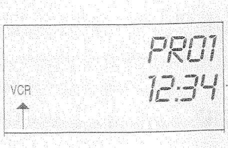
Switch the antenna output on recorder to manual by pressing **RF OUT (3 seconds)**. In this setting (TV) your TV set is still provided with the antenna signal via the antenna cable.

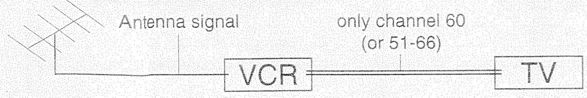




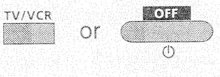
Press **TV / VCR** on the remote control to send the video recorder signal to the TV set. In this setting (VCR) your TV set will receive sound and picture signals from the video recorderwhen you selectthe video recorder channel (for video recorder programme number, see above), on the TV set.

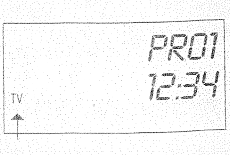






In this setting (VCR) TV programme numbers on the TV set will have only poor quality pictures when selected.
Press **TV / VCR** to switch to "TV" or switch the video recorder off.





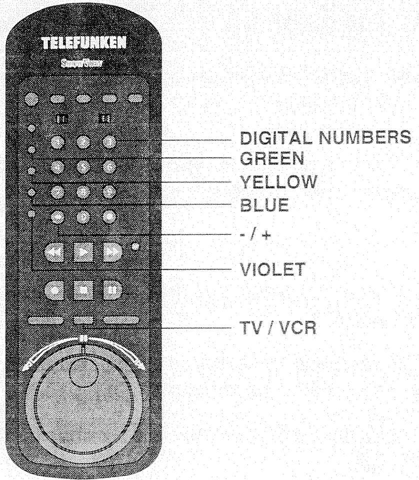
SETTING UP YOUR RECORDER

Channel setting

Your video recorder receives TV broadcasts in exactly the same way as a modern TV set. This means that you must allocate the channel number of stations received via your antenna or TV-cable to a programme number (or preset).

We recommend that you allocate the same channel to the same programme number on both the recorder and the TV set.

Switch on your TV set and select either
- the VCR programme number or
- press **TV / VCR** on the recorder remote control if you have an AV cable connected (pages 34/35).

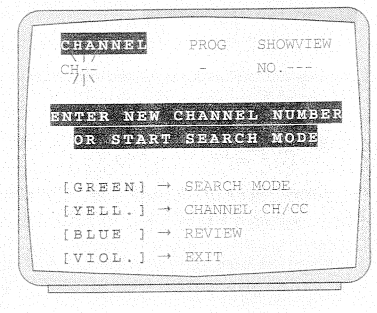


1. Select the channel menu

with **YELLOW** (CHANNEL).

If you make errors, press **VIOLET** (EXIT) to move back and start again.

If you know the channel number of the TV station proceed to section 2b. If not, continue with section 2a.



CHANNEL PROG SHOWVIEW
CH-- - NO.---

ENTER NEW CHANNEL NUMBER
OR START SEARCH MODE

[GREEN] → SEARCH MODE
[YELL.] → CHANNEL CH/CC
[BLUE] → REVIEW
[VIOL.] → EXIT

2a. Channel search

is started by pressing **GREEN** to move through the channels in ascending order.

"SEARCH" stops when it finds a channel, and shows the picture and also the channel number. If you like this channel proceed to step 3, otherwise repeat.

2b. For DIRECT CHANNEL entry

press **YELLOW** after first selecting type of channel: CH (normal) or CC (S, only in cable network).

Enter the channel number using the **DIGITAL NUMBERS**.

Channel FINE TUNING

will only improve results in rare cases, because the automatic tuner will always adjust for the best picture.

Select "FINE TUNING" with **YELLOW** and adjust for the best sound and picture using **YELLOW / BLUE**.

3. The PROGramme number of the channel

is allocated under "PROG".

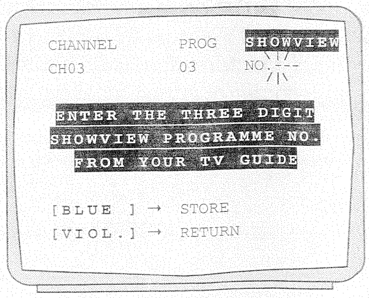
Enter a number with the **DIGITAL NUMBERS**.

Enter double digit programme numbers with 0 prefix (e.g. 12 = 0 + 1 + 2).

4. The SHOWVIEW channel ID numbers

are required by the video recorder for each recording if you wish to use the ShowView number system. Your TV guide will have a list of these ID numbers. Enter the number here of the channel currently selected. You can also enter the ID number (right hand page), for this proceed to point 5.

Enter the numbers as three digits: e.g. 3 = 003 and 12 = 012.



CHANNEL PROG SHOWVIEW
CH03 03 NO.---

ENTER THE THREE DIGIT
SHOWVIEW PROGRAMME NO.
FROM YOUR TV GUIDE

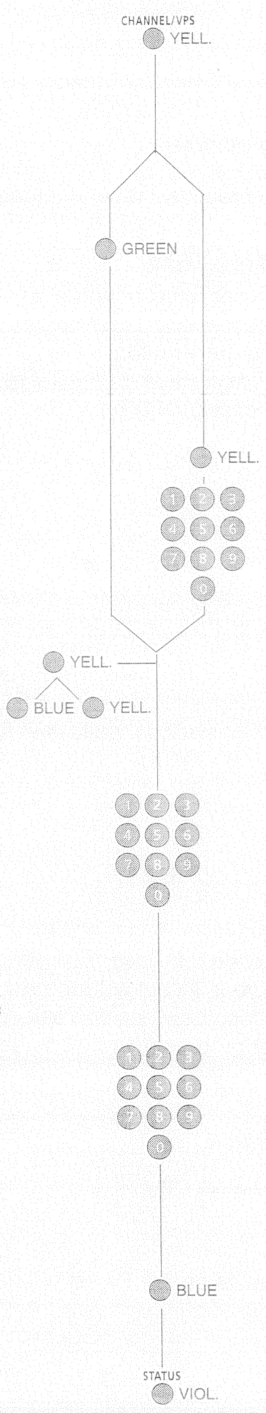
[BLUE] → STORE
[VIOL.] → RETURN

5. STORE

the settings by pressing **BLUE**.

Repeat step 2a. or 2b. for additional channels.

Leave the menu by pressing **VIOLET** (STATUS).



Entering or changing ShowView channel ID numbers.

Call up the program overview using **YELLOW** and **BLUE**.

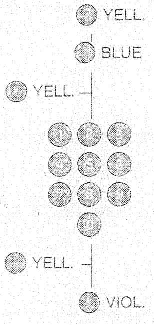
A. Search for the program ID number you wish to change using **YELLOW** or

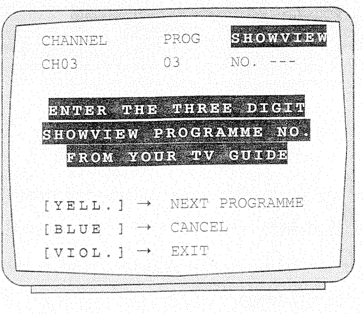
B. start entering the ID numbers from the table in your TV guide .

Enter the numbers as three digit numbers e.g. 3 as 003 and 12 as 012 using the **DIGITAL NUMBERS**.

YELLOW moves forward to the next program number.

Finish entries with **VIOLET**.





CHANNEL PROG **SHOWVIEW**
CH03 03 NO. ---

ENTER THE THREE DIGIT
SHOWVIEW PROGRAMME NO.
FROM YOUR TV GUIDE

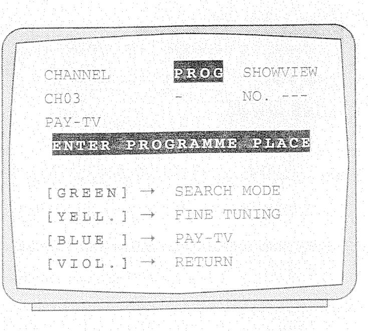
[YELL.] → NEXT PROGRAMME
[BLUE] → CANCEL
[VIOL.] → EXIT

The DECODER for encoded programs ...

... is connected to the DECOD. socket on the back of the recorder (page 34).
The decoder is activated by selecting the channel number from the channel menu (page 36) and pressing **BLUE** for decoder activate and linking it with a program number (with ShowView channel ID).
Once the settings are stored the decoder is activated automatically when you select this programme number manually or in a TIMER recording.

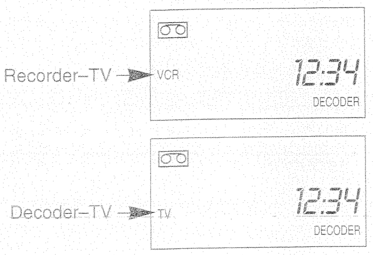
You can use the decoder for your TV set as well: for this function the TV and VCR must be connected via a SCART cable. Although the recorder cannot use the decoder simultaneously with the TV set, it can record a different programme at the same time or you can switch the VCR off.
When the TV is showing a channel requiring decoding the signals are sent to the decoder via the AV cable.

Use the **TV / VCR** button to switch between the decoder-TV and recorder-TV link.



CHANNEL **PROG** SHOWVIEW
CH03 - NO. ---
PAY-TV
ENTER PROGRAMME PLACE

[GREEN] → SEARCH MODE
[YELL.] → FINE TUNING
[BLUE] → PAY-TV
[VIOL.] → RETURN



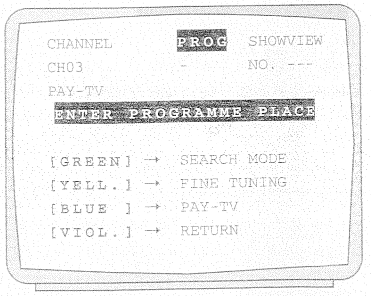
SATELLITE receivers ...*

... are connected to the DECOD socket on the back of the recorder (page 34).
This is selected by entering a channel number in the channel menu (left hand page), pressing **BLUE** and then program number 99 (for ShowView timer recordings without ShowView channel ID). Store this setting and the satellite receiver is now selected automatically when you choose this program number or use it in a timer recording (satellite receiver must be switched on).

Your TV set can also be supplied with signals from the satellite receiver: TV and recorder must be connected with a SCART (AV) cable. The satellite receiver must be able to switch the TV set either on, over or off via the AV cable.
The recorder cannot use the satellite receiver simultaneously with the TV set, but can record a different program simultaneously or be switched off completely.

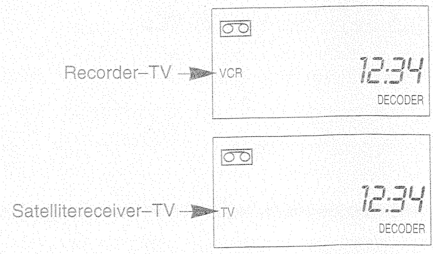
Switch between the satellite receiver-TV and recorder-TV connection using **TV / VCR.**

(If the satellite receiver has its own timer please see chapter "External recorder control", page 50).



CHANNEL **PROG** SHOWVIEW
CH03 - NO. ---
PAY-TV
ENTER PROGRAMME PLACE

[GREEN] → SEARCH MODE
[YELL.] → FINE TUNING
[BLUE] → PAY-TV
[VIOL.] → RETURN

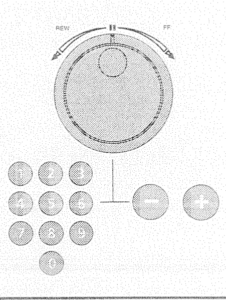


Tuner mode ...

... is a useful feature of your VCR if your TV set is without a cable tuner. You can watch cable channels using the video recorder's tuner.

For this, select the video recorder programme number or AV (pages 34/35) on your TV set.

Now select your viewing on the video recorder (remote control) using **DIGITAL NUMBERS**, – / + or the **JOG disc**.

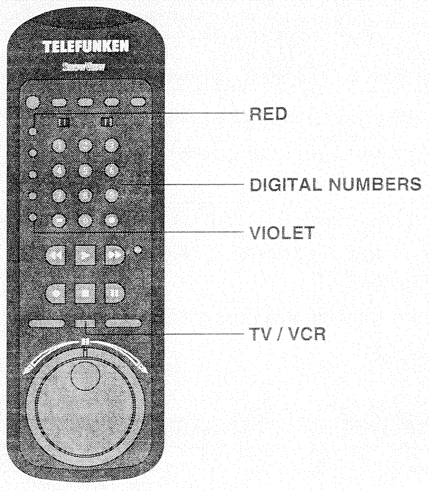


---

* Satellite receivers (connected via the aerial or DECOD socket) are best allocated program number 99. This is because the ShowView timer always switches to program number 99 for any channel ID numbers which the recorder does not recognise. This means that you can use the ShowView system to record satellite TV programs provided you leave the satellite receiver tuned in to the program of choice.

SETTING UP YOUR RECORDER

Setting the clock



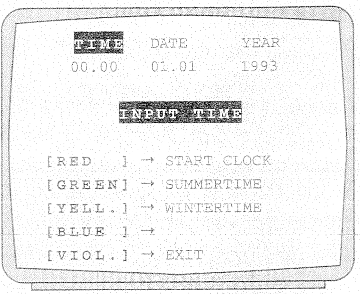
For precise timer controlled recordings you must adjust the clock and the calendar.

Don't forget to use the quick adjust options to switch between summer and winter time.

Switch your TV set on
- and select the video recorder programme number or
- press **TV / VCR** on the recorder remote control if using an AV cable (pages 34/35).

1. <u>Call the clock menu</u>
   by pressing **RED** (TIMER PRG./CLOCK SET).
   If a TIMER menu appears hold the button down for a few seconds.

TIMER PRG.
CLOCK SET
RED



```
TIME      DATE      YEAR
00.00     01.01     1993

       INPUT TIME

[RED  ] → START CLOCK
[GREEN] → SUMMERTIME
[YELL.] → WINTERTIME
[BLUE ] →
[VIOL.] → EXIT
```

2. <u>Commence entry</u>
   by entering the time and date with the **DIGITAL NUMBERS**.

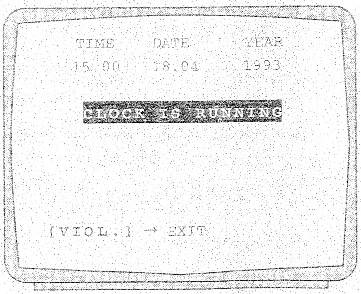
1 2 3
4 5 6
7 8 9
0

Mistake or change?

Move to the input field in question with – / + or the **JOG disc** (the field flashes) and enter the change.

3. <u>Start the clock</u>
   (after time signal) with **RED**.

TIMER PRG.
CLOCK SET
RED



```
TIME      DATE      YEAR
15.00     18.04     1993

    CLOCK IS RUNNING


[VIOL.] → EXIT
```

Exit the menu with **VIOLET** (STATUS).

STATUS
VIOL.

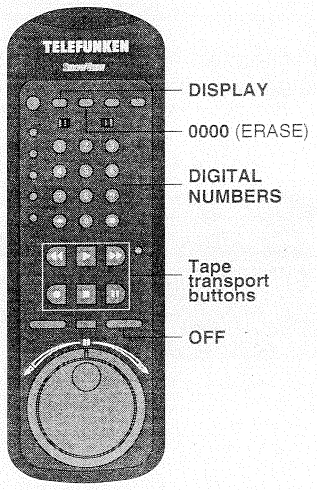
The clock has a 60 minute back up to cover power failures.

Video recorder on / off

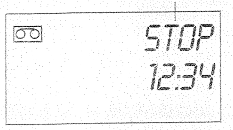
ON: The video recorder switches on
- when a cassette is loaded in recorder mode,
- with a cassette loaded and when a tape transport button is pressed in recorder mode,
- with a cassette loaded and when a button is pressed - apart from tape transport buttons, **TIMER** and **OFF**, in tuner mode and
- with no cassette loaded and when any button is pressed apart from **OFF** in tuner mode.

The recorder display repeats the functions selected.

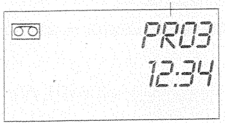
If the recorder is left for more than 5 minutes in STOP the tape tension relaxes. If a recorder function is not requested within further 10 minutes the VCR switches to tuner mode, i.e. only the TV tuner remains active.


TELEFUNKEN
DISPLAY
0000 (ERASE)
DIGITAL NUMBERS
Tape transport buttons
OFF

Recorder mode



Tuner mode



OFF: The recorder switches off.
only if key **OFF** is pressed on the remote control.

! The clock in the recorder display indicates that the unit is in standby. The unit is still connected to the mains!

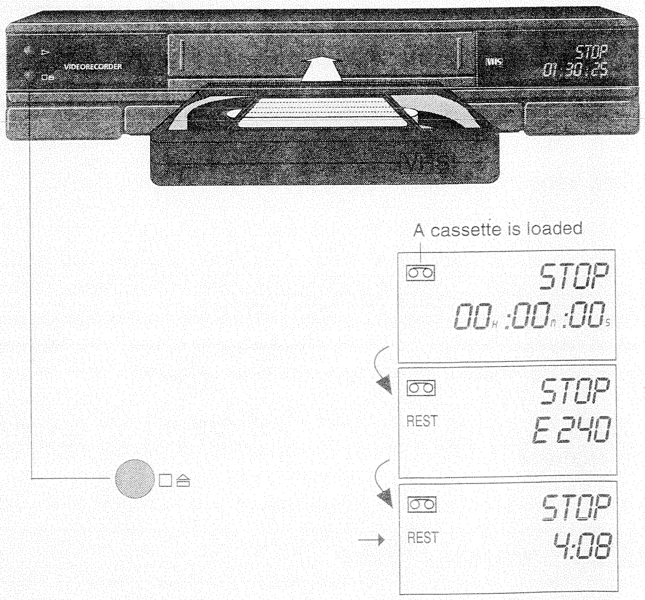
Cassette load/eject

If you load a cassette which is protected against recording (page 30) the recorder starts to play back the tape immediately.

LOAD:
Insert the cassette straight and carefully into the bay until the recorder's automatic loading system takes over.

- The recorder switches on automatically,
- tests the cassette type and
- shows the tape remain time (REST), i.e. time to end of tape, in hours and minutes.

EJECT:
Press □⏏(STOP/CASSETTE)
once from STOP,
two times quickly from playback etc.

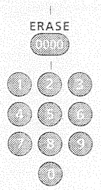

VIDEORECORDER
STOP
01:30:25
VHS
A cassette is loaded
STOP
00H:00M:00S
STOP
REST
E240
STOP
REST
4:08
□⏏

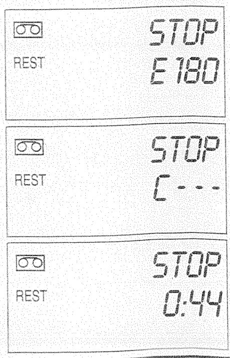
Not a standard cassette?

The accuracy of the remain time display depends upon the correct tape length in the cassette. Standard lengths, e.g. E180, E240, are recognised by the recorder. Special lengths, e.g. E195, E210, must be entered manually.

- With the unit in recorder mode call the cassette type data to the recorder display by pressing **DISPLAY** (1 - 3x).
- Switch the display to "C---" for special lengths with **0000** (ERASE).
- Enter the tape length (see cassette sleeve) on the **DIGITAL NUMBERS**.

The display will switch to show the correct tape remain time (REST).

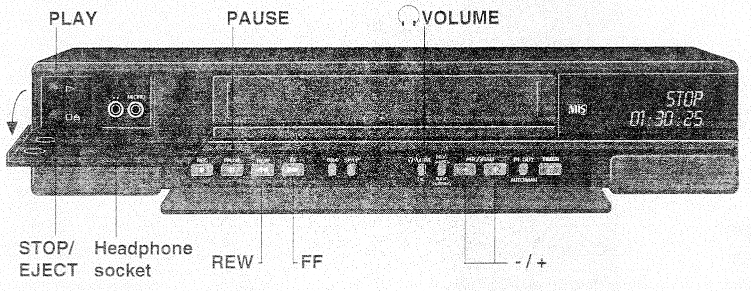

DISPLAY
ERASE
0000
1
2
3
4
5
6
7
8
9
0

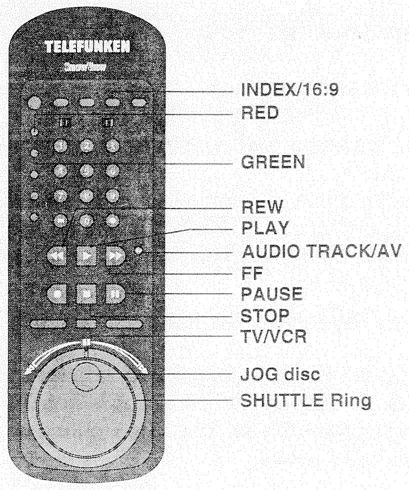

STOP
REST
E180
STOP
REST
C---
STOP
REST
0:44

PLAY BACK recorded VHS cassettes

Switch your TV set on

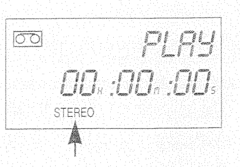
- and select the video recorder programme number or
- press **TV / VCR** on the recorder remote control if using an AV cable (page 34/35).


PLAY
PAUSE
VOLUME
STOP
01:30:25
STOP/ EJECT
Headphone socket
REW
FF
- / +

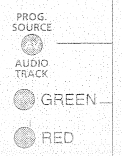

TELEFUNKEN
INDEX/16:9
RED
GREEN
REW
PLAY
AUDIO TRACK/AV
FF
PAUSE
STOP
TV/VCR
JOG disc
SHUTTLE Ring

When a cassette is loaded the recorder switches on.

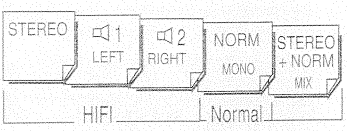
If you load a cassette which is protected against recording (page 30) the recorder starts to play back the tape immediately.


PLAY
00 :00 :00
STEREO

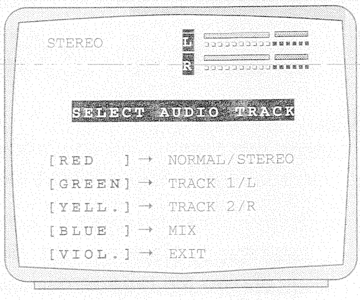
Start playback with **PLAY**.


PROG. SOURCE
AV
AUDIO TRACK
GREEN
RED

Select sound with **AUDIO TRACK** (AV)


STEREO
1
LEFT
2
RIGHT
NORM
MONO
STEREO + NORM
MIX
HIFI
Normal

If the sound to a picture is incomprehensible (two-track recording) select one of the sound tracks by pressing **AUDIO TRACK** (AV) or select via the sound track menu: **GREEN** and **RED**.
Recordings made on a non-HIFI recorder (NORM) are detected automatically.
Do not leave your VCR in MIX mode (STEREO + NORM).



SELECT AUDIO TRACK

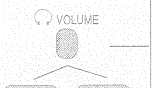
[RED] → NORMAL/STEREO
[GREEN] → TRACK 1/L
[YELL.] → TRACK 2/R
[BLUE] → MIX
[VIOL.] → EXIT

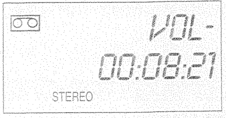
At end of tape the recorder rewinds the cassette automatically.

(Interference lines? Picture sharpness, page 52).

Use headphones to monitor...

... the sound by plugging into the headphone socket 🎧 located behind the left hand part of the recorder front panel.

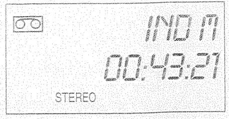



VOL-
00:08:21
STEREO

Volume is adjusted by pressing 🎧 **VOLUME** and then **- / +** on the video recorder.

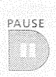
INDEX search marks ...

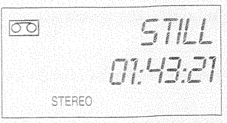
.... are set at points on the tape you wish to find again quickly (scenes...).


IND M
00:43:21
STEREO

During playback press **INDEX** (Index system, page 43).

Still pictures ...

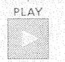



STILL
01:43:21
STEREO

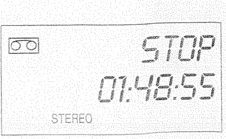
... are shown when you press **PAUSE**. Press the button again or hold down to switch from frame to frame.

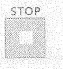
If no button is pressed within 5 minutes the recorder will stop automatically to protect video heads and tape.

(Shaky still picture, page 52).



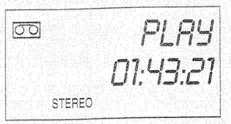
PLAY or **STOP** will exit this function.


STOP
01:48:55
STEREO



Stop playback with **STOP**.

Ilf a cassette is loaded press **PLAY** to turn recorder on and start playback.


PLAY
01:43:21
STEREO

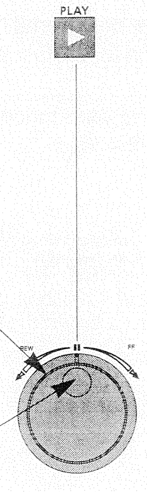
JOG-SHUTTLE

This is a very easy way of finding a certain frame quickly and accurately, or studying a scene.

SHUTTLE ring:
depending upon angle you can choose slow motion and picture search in both directions.
Release the ring and the current frame is shown.

JOG disc:
turning slowly or quickly in either direction moves from frame to frame.

End this function with **PLAY** or **STOP**.


PLAY
REW
II
FF

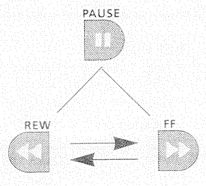
For variable slow motion ...

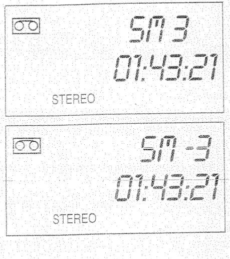
... press **PAUSE** for still picture and then **REW** for backwards and **FF** for forwards.
Press the **REW** or **FF** button (repeatedly) to vary speed and direction of picture search.

For example: From slow motion SM 3 pressing **REW** 5x will switch the unit to slow motion backwards SM -3.

If no button is pressed within 5 minutes the recorder will stop automatically to protect video heads and tape.
(Slow motion with interference lines, page 52).

Exit this function with **PAUSE**, **PLAY** or **STOP**.


PAUSE
REW
FF


SM 3
01:43:21
STEREO
SM -3
01:43:21
STEREO

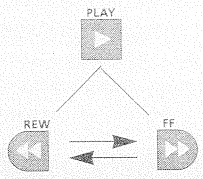
Variable picture search ...

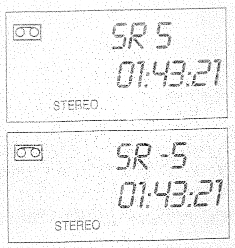
.. is started from playback by pressing **REW** for backwards and **FF** for forwards.
Press the **REW** or **FF** button (repeatedly) to vary speed and direction of picture search.

Example: In picture search forward, SR 5 pressing **REW** 5x will switch to picture search backwards SR -5.

At end of tape the recorder stops.

Exit this function with **PAUSE**, **PLAY** or **STOP**.




SR 5
01:43:21
STEREO
SR -5
01:43:21
STEREO

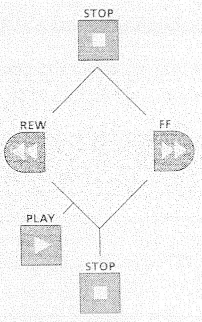
Wind the cassette forwards or backwards ...

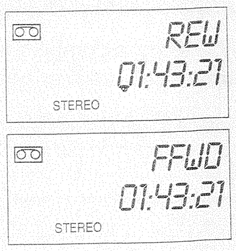
.. by pressing **REW**, for rewind and **FF** for fast forward, but from STOP.

At end of tape the recorder stops.

If you press **PLAY** within 3 seconds of pressing **REW** the unit switches to play back automatically at end of tape.

STOP and **PLAY** exit the function.


STOP
REW
FF
PLAY
STOP


REW
01:43:21
STEREO
FFWD
01:43:21
STEREO

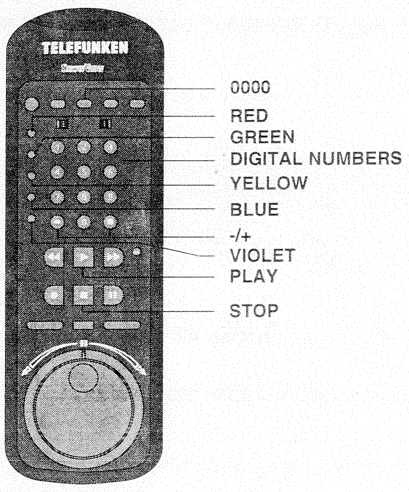
SEARCH and FIND

Because VHS cassettes can record many hours of material this recorder has several features to help you search for certain points on the tape, e.g. start of films, scenes etc.

In addition to the slow motion, picture search and wind functions, this chapter describes how to find certain points on the tape.

For your convenience this VCR has

- a REAL TIME counter, which counts in hours, minutes and seconds (from loading of cassette or manual setting of 00H00M00s with **0000**. Note: 00H00M00s is not necessarily start of tape! The tape must be recorded!),
- a REMAIN time display which after loading a cassette tells you the tape time remaining to end of tape and
- an INDEX system which uses electronic markers.


TELEFUNKEN
0000
RED
GREEN
DIGITAL NUMBERS
YELLOW
BLUE
-/+
VIOLET
PLAY
STOP

Go to a counter position ...

... is used if you know the position on the tape of a certain scene.

From STOP or playback select "GO TO COUNTER":
Press **GREEN** and **YELLOW**.

Press **0000** if you wish to go to position 00H00M00s.
If the tape must be rewound i.e. 00H00M00S is in the direction of start of tape, press - first.

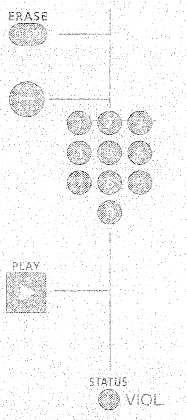
Enter the position, a six figure number, with the **DIGITAL NUMBERS**.

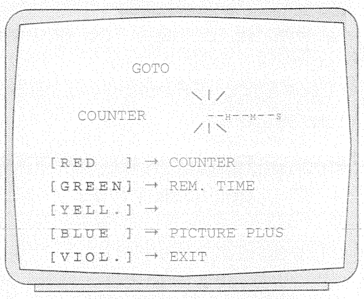
If you make a mistake during entry press **RED** and start again.

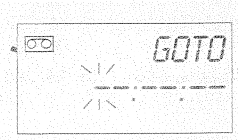
When the entry is complete the recorder will wind to that position and stop.

If you press **PLAY** within 3 seconds of completing the entry the recorder will start to play back immediately after that point is reached.

Exit this function by pressing **STOP** or **PLAY**.


ACCESS/HIFI
GREEN
YELL.
ERASE
0000
1 2 3
4 5 6
7 8 9
0
PLAY
STATUS
VIOL.


GOTO
COUNTER --H--M--S
[RED] → COUNTER
[GREEN] → REM. TIME
[YELL.] →
[BLUE] → PICTURE PLUS
[VIOL.] → EXIT



Go to a remain time position ...

... when you know that the target is for example 1 hour and 20 minutes before end of tape.

From STOP or playback select "GO TO REM. TIME":
Press **GREEN**, **YELLOW** and **GREEN.**

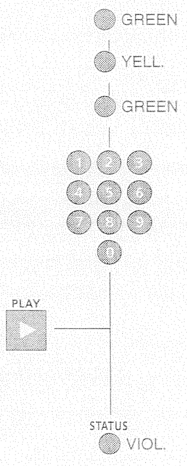
Enter a four figure number on the **DIGITAL NUMBERS**.

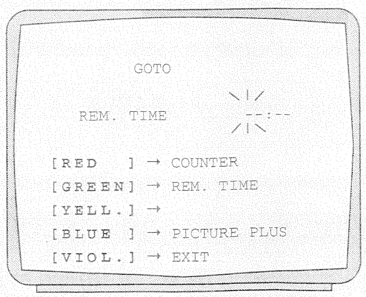
If you make a mistake during entry press **GREEN** and start again.

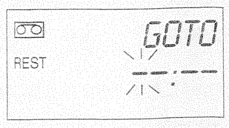
When the entry is complete the recorder will wind to that position and stop.

If you press **PLAY** within 3 seconds of completing the entry the recorder will start to play back immediately after that point is reached.

Exit this function by pressing **STOP** or **PLAY**.


GREEN
YELL.
GREEN
1 2 3
4 5 6
7 8 9
0
PLAY
STATUS
VIOL.


GOTO
REM. TIME --:--
[RED] → COUNTER
[GREEN] → REM. TIME
[YELL.] →
[BLUE] → PICTURE PLUS
[VIOL.] → EXIT



Index marks are used to mark certain tape positions (e.g. start of films, start of scenes, etc.), and allow fast and easy finding. Whenever a recording is started from STOP or a timer controlled recording is made the recorder sets an index mark on the tape automatically.

Index marks can also be set and erased by hand (see PLAY and RECORDING). If the tape is being re-recorded all old marks are erased.

Search for index marks

Recorder in STOP or playback.
Press **GREEN 3x** : "INDEX SEARCH".

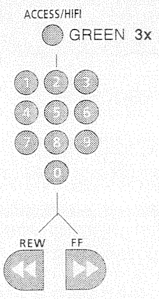
You can enter the number of index marks which the recorder is to skip either forwards or backwards on the **DIGITAL NUMBERS**. (If you make a mistake press **GREEN** and start again.)

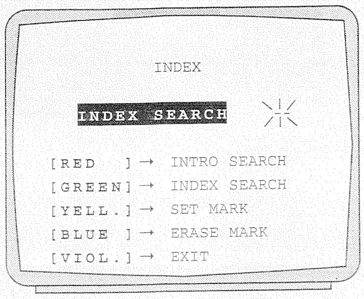
Enter the direction to search with **REW** (back) or **FF** (forwards) and the recorder winds to the specified position and stops.

If you press **PLAY** within 3 seconds of completing the entry the recorder will start playback immediately it has reached the target.

Press **PLAY** instead of **REW / FF** (possibly with a skip number) and the recorder plays back continuously between index marks.

Exit the search function by pressing **STOP** or **PLAY**.

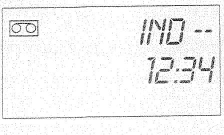




INDEX

INDEX SEARCH

[RED] → INTRO SEARCH
[GREEN] → INDEX SEARCH
[YELL.] → SET MARK
[BLUE] → ERASE MARK
[VIOL.] → EXIT



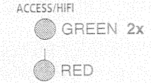
The Intro function ...

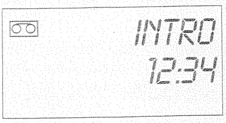
... provides you with an overview of points marked on the cassette. The VCR moves fast forward to each mark in sequence and plays a 15 second excerpt at picture search speed.

Recorder in STOP or playback.
Press **GREEN 2x** and **RED**: "INTRO INDEX".

At end of tape the recorder stops.

Exit the search function by pressing **STOP** or **PLAY**.





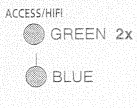
Erase an index mark ...

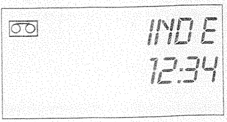
... by first moving to a mark as described under "Search for index marks". The recorder stops just in front of the mark.
Recorder in STOP.
Press **GREEN 2x** and **BLUE**: "ERASE MARK".

Playback starts and the next index mark is erased.

During this procedure the recorder mutes the sound.
Index marks are not set/erased if the cassette safety tab is broken out.
Erasing index marks does not affect the recording.

Exit the menu with **VIOLET.**

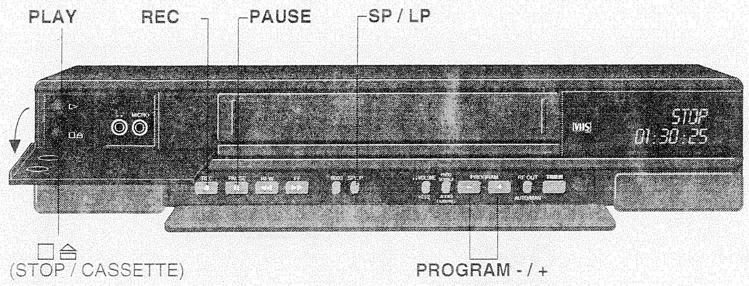


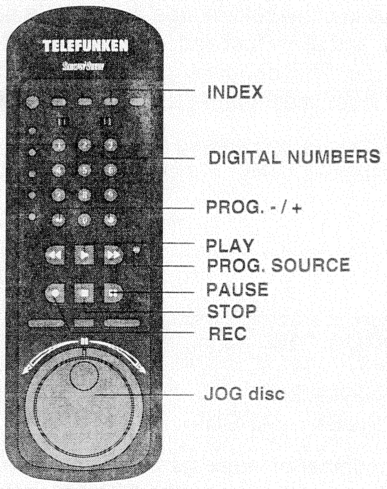


! **Index search, intro and erase without menu access**
Please lock for it in the BRIEF INSTRUCTION: SEARCH and FIND.

RECORDING current programmes

When your VCR is recording you can either turn your TV set off or watch a different TV programme.
Make sure that a suitable cassette is loaded.


PLAY
REC
PAUSE
SP / LP
STOP
01:30:25
(STOP / CASSETTE)
PROGRAM - / +


TELEFUNKEN
INDEX
DIGITAL NUMBERS
PROG. - / +
PLAY
PROG. SOURCE
PAUSE
STOP
REC
JOG disc

Set up

First select the programme number of the channel you wish to record, using **JOG disc**, **– / +** or the **DIGITAL NUMBERS**.

Two digit programme numbers are entered with a "0" prefix:
12 = 0 + 1 + 2.

When recording from a Camcorder or similar press **PROG. SOURCE** (AV) **3x** (Dubbing, page 55).

You can select Longplay (LP) to double the recording capacity of a cassette with **SP/LP**.

During a dual sound broadcast (🔈 1/2 BILINGUAL) you can listen to (not record) one of the two sound versions by pressing 🔈 1/2 for **3 sec.** for the sound channel of your choice (see also page 48).
This switch also offers 🔈 1/2 mode, for hearing simultaneously both sound versions, and 🔈, if reception of NICAM stereo is poor. The recorder then records only the mono sound of version 1.

(16:9 ? Page 50 – Manual sound level setting? Page 49)

Recording

Start recording by pressing **REC** and **PLAY**.

The VCR automatically sets an index mark (page 43) at the start of the recording. If the cassette is record protected (see page 30) it will be ejected by the recorder.

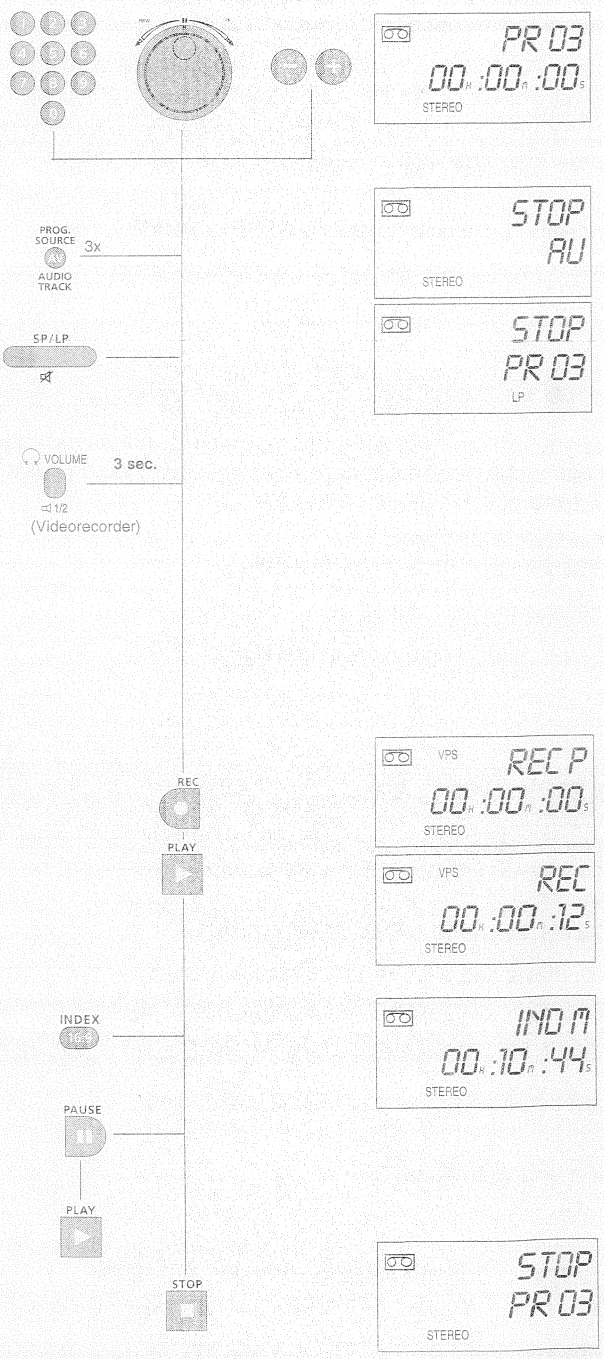
Set additional index marks with **INDEX**.

You can interrupt recordings for short periods, e.g. change of programme, by pressing **PAUSE.**

If no other key is pressed within 5 minutes the recorder stops to prevent wear and tear to video heads and tape.

Restart by pressing **PLAY**.

STOP finishes the recording.

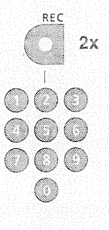

PR 03
00H :00m :00s
STEREO
PROG. SOURCE
3x
AUDIO TRACK
STOP
AU
STEREO
SP/LP
STOP
PR 03
LP
VOLUME
3 sec.
🔈1/2
(Videorecorder)
REC
PLAY
VPS
REC P
00H :00m :00s
STEREO
VPS
REC
00H :00m :12s
STEREO
INDEX
16:9
IND M
00H :10m :44s
STEREO
PAUSE
PLAY
STOP
STOP
PR 03
STEREO

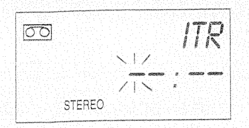
Recording with auto stop

Press **REC 2x** and the VCR starts recording instantly. Enter the time when the recording is to stop on the **DIGITAL NUMBERS**.

You can press **REC** any time during the recording and enter a stop time.

If no stop time is entered the VCR will record to end of tape or until you press **STOP**.


REC
2x
1 2 3
4 5 6
7 8 9
0

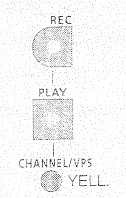


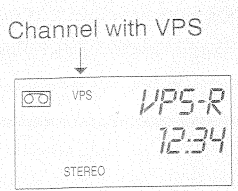
Recording current VPS programmes

The channel selected must broadcast the VPS service (please see on bottom).

Press **REC**, **PLAY** and **CHANNEL / VPS** (YELLOW) in that order, the recorder starts to record instantly.

The recorder finishes when the programme finishes.


REC
PLAY
CHANNEL/VPS
YELL.

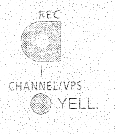

Channel with VPS
VPS
VPS-R
12:34
STEREO

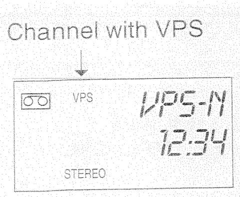
Recording the next VPS programme

The channel selected must broadcast the VPS service (please see on bottom).

Press **REC** and **CHANNEL / VPS** (YELLOW) in that order, the recorder starts to record when the next VPS programme is transmitted - even if delayed.

Recording stops automatically at the end of that programme.

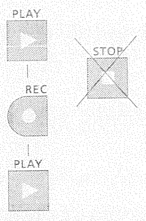

REC
CHANNEL/VPS
YELL.

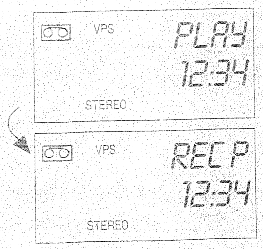

Channel with VPS
VPS
VPS-N
12:34
STEREO

Assembling recorded scenes

Set the point at which the next scene is to be recorded using the playback functions (pages 40/41).

Press **REC** to enter record standby and start recording by pressing **PLAY**.


PLAY
STOP
REC
PLAY


VPS
PLAY
12:34
STEREO
VPS
REC P
12:34
STEREO

VPS - Video Programme System

Some TV channels broadcast additional signals for timer controlled recording on your VCR. The signals ensure full recording of programmes even if delayed, because all programmes are individually coded.
Recordings are always complete.
If the recorder detects VPS signals the "VPS" display lights up.
If no VPS signal is broadcast the timer will use the START and STOP times as entered. (As a rule you should always switch on the VPS option when programming timer events.)
The START time (VPS time) must be entered exactly!

TIMER controlled RECORDING of future programmes with SHOWVIEW

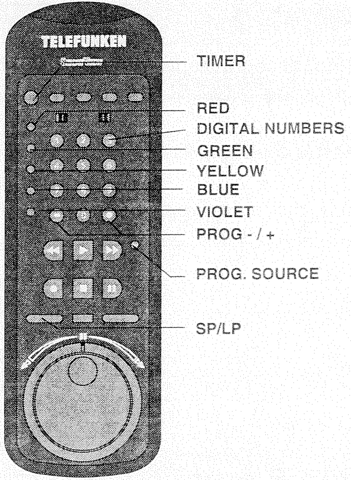
Your video recorder makes you independent of current TV programming.

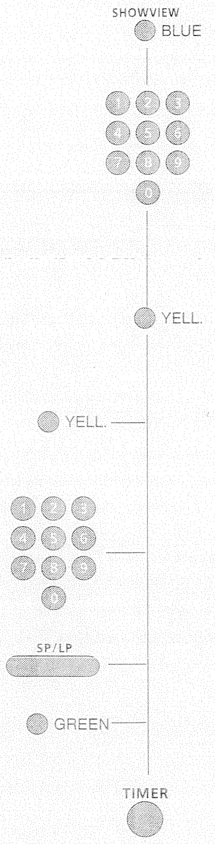
You can ...

- program the recorder to record up to 8 events (programmes) for up to a year ahead in any order.
- switch off your TV set or watch another programme.

Recording events are normally programmed by telling the recorder when (time and date) and what to record, i.e. program number (channel) (see page on right).
The ShowView System simplifies this: every program has a number, like a telephone number, which is listed in the TV guide.

- To use the ShowView System to make a timer controlled recording, the recorder must know the channel identity codes of the ShowView System, for this see pages 36/37.
- Are clock and date set correctly? Check that you have a cassette with sufficient space for the programmed recordings.

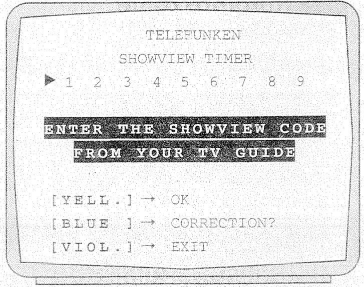




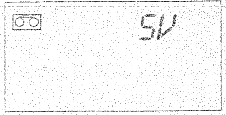
1. Call up the ShowView menu,
   by pressing **BLUE** (ShowView).

2. Enter the number of the program exactly
   as in the TV guide using the **DIGITAL NUMBERS**.

   If you make a mistake press **BLUE** to move back one place and re-enter.



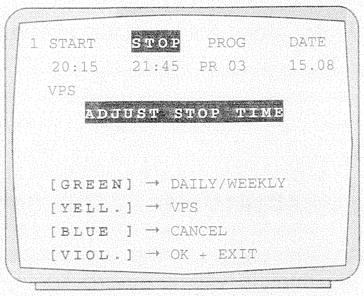
```
TELEFUNKEN
SHOWVIEW TIMER
▶ 1  2  3  4  5  6  7  8  9

ENTER THE SHOWVIEW CODE
FROM YOUR TV GUIDE

[YELL.] → OK
[BLUE ] → CORRECTION?
[VIOL.] → EXIT
```



3. Confirm the data
   by pressing **YELLOW.**

   VPS
   should be selected for channels offering this system because it starts and stops the recorder precisely with the program times: press **YELLOW** (VPS, page 45).

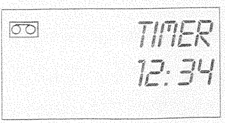
   If you want to...
   - extend the recording time to add on a safety margin for channels without VPS use the **DIGITAL NUMBERS** to change the STOP time.
   - select Longplay (LP) to double the capacity of the cassette for long recordings, press **SP / LP**.
   - repeat the recording of a program weekly or daily press **GREEN**



```
1 START   STOP    PROG    DATE
  20:15   21:45   PR 03   15.08
  VPS

      ADJUST STOP TIME

  [GREEN] → DAILY/WEEKLY
  [YELL.] → VPS
  [BLUE ] → CANCEL
  [VIOL.] → OK + EXIT
```

4. Timer standby is switched on
   by pressing **TIMER** on either remote control or recorder. The VCR is now in automatic and will record the events programmed.

   - To record more than one program using the Timer or to use the recorder normally, you can exit the timer menu by pressing **VIOLET** (STATUS).
   - If you interrupt timer standby with **TIMER**, don't forget to press **TIMER** again to reset.



If an error message is displayed

- correct the number or
- check the date and time of your recorder (and your TV guide?).

If all timer numbers are occupied search for one you no longer need with **RED** and delete with **BLUE**.

TIMER controlled RECORDING

1. **Call up one of the 8 TIMER numbers**

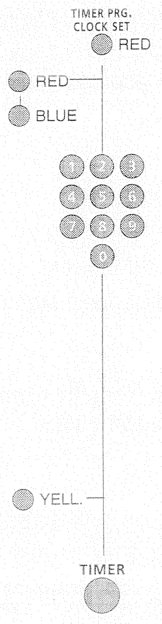
   by pressing **RED** (TIMER PRG. ./ CLOCK SET).

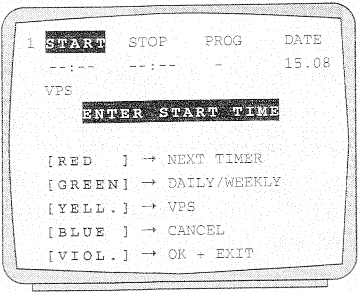
   - If the recorder displays an occupied timer number select an unused one with **RED** or delete one with **BLUE**.

2. **Enter data**

   as required enter the data on the **DIGITAL NUMBERS**:

   - The "START" time – When does a programme start?
   - The "STOP" time – When does the programme finish?
   - The "PROG" – Which programme? (12 = 0+1+2)
   - The transmission "DATE" – Enter the date if not today's.
   - Move the cursor to the left or the right fo make selections or changes using the **- / +** keys.





```
1 START   STOP    PROG    DATE
  --:--   --:--   -       15.08
  VPS
     ENTER START TIME

[RED   ] → NEXT TIMER
[GREEN] → DAILY/WEEKLY
[YELL.] → VPS
[BLUE  ] → CANCEL
[VIOL.] → OK + EXIT
```

VPS

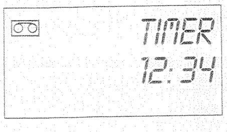
should be selected for channels offering this system because it starts and stops the recorder precisely with the programme times: press **YELLOW** (VPS, page 45).

3. **Timer standby is switched on**

   by pressing **TIMER** on either remote control or recorder. The VCR is now in automatic and will record the events programmed.

   In order to enter more timer controlled recordings or to use the recorder normally you must first leave the timer menu with **VIOLET** (STATUS).

   If you interrupt timer standby with **TIMER**, don't forget to press **TIMER** again to reset.



Special features

- The signal source is selected using **PROG. SOURCE**:

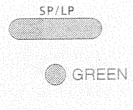
  "PR--", program numbers for TV channels,

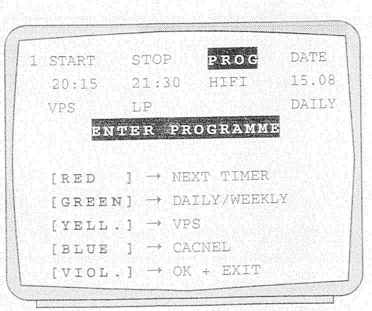
  "SI--", sound from the AUDIO IN sockets and pictures from the entered channel (simultaneous recording, page 49),

  "HIFI", sound from the AUDIO IN sockets and no picture (HIFI recording, page 49),

  "AV", recording from the AUDIO/VIDEO socket, i.e. from another recorder or camcorder etc. (page 55).
- Select Longplay (LP) to double the capacity of the cassette using **SP / LP**.
- The recording of a program can be repeated daily or weekly by pressing **GREEN**.

PROG.
SOURCE
AV
AUDIO
TRACK



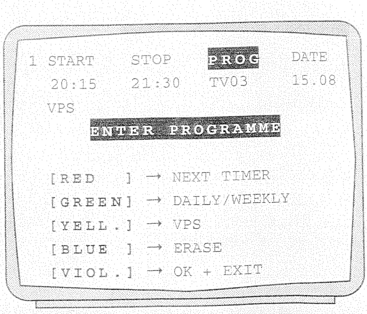


```
1 START   STOP    PROG    DATE
  20:15   21:30   HIFI    15.08
  VPS     LP              DAILY
     ENTER PROGRAMME

[RED   ] → NEXT TIMER
[GREEN] → DAILY/WEEKLY
[YELL.] → VPS
[BLUE  ] → CACNEL
[VIOL.] → OK + EXIT
```

The timer for TV

reminds you of the start of your favourite TV programme. This function is available if your TV can be switched on/over/off by the video recorder (using AV cable page 34). Enter a timer number as usual. On PROG line select "TV –" with **PROG. SOURCE** and enter the TV programme number. Activate the timer with **TIMER**.

PROG.
SOURCE
AV
AUDIO
TRACK
TIMER



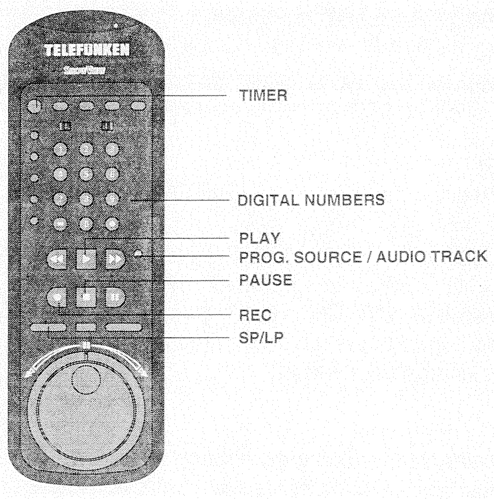
```
1 START   STOP    PROG    DATE
  20:15   21:30   TV03    15.08
  VPS
     ENTER PROGRAMME

[RED   ] → NEXT TIMER
[GREEN] → DAILY/WEEKLY
[YELL.] → VPS
[BLUE  ] → ERASE
[VIOL.] → OK + EXIT
```

Notes on timer standby

- To check entries you can call up the timer menu during timer standby with **RED**.
- If you activate the timer without programming or with a record-protected cassette loaded, TIMER will flash in the display. The recorder rejects the cassette.
- The recorder erases elapsed timer programmes automatically.
- A timer controlled recording can be aborted with **TIMER**. The timer program is erased.
- If no other timer events are programmed the recorder exits timer standby.
- If timer events overlap the first is completed before the second starts.

The HIFI SYSTEM

This video recorder has not only the standard VHS sound (NORMal) but also has a high quality HIFI sound unit. The sound quality possible on the HIFI sound tracks 🔈 1 (left) and 🔈 2 (right) on your VCR are of a level similar to that of compact discs (CD).

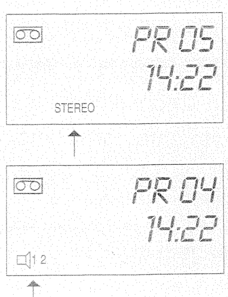

TELEFUNKEN
TIMER
DIGITAL NUMBERS
PLAY
PROG. SOURCE / AUDIO TRACK
PAUSE
REC
SP/LP

This makes your HIFI video recorder ideal for recording

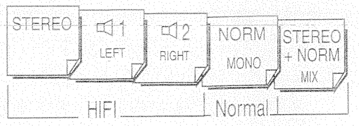
- long concerts in high quality, more than eight hours (LP) or
- making timer controlled recordings from your HIFI tuner
- recording TV transmissions whose sound is broadcast simultaneously on a UHF radio channel for quality reasons (simul cast recording).
- recording TV transmissions with two sound versions (bilingual), for example, the dubbed language and the original language (**AUDIO TRACK**, see playback, page 40).

The recorder is designed for recording and playing back STEREO signals:

- The STEREO display lights up when STEREO signals are received (A2 Germany / NICAM).
- The 2-tone display (bilingual) lights up when bilingual transmissions are received (A2 Germany / NICAM).
- Your VCR will always record all sound tracks transmitted with a TV programme. Stereo on the HiFi tracks and MONO on the NORMal track or for bilingual transmission sound version 1/version 2 on the HiFi tracks and version 1 on the NORMal track (see also Recording).
- Only a HIFI video recorder can access the HIFI sound track.
- The NORMal longitudinal track is played back by any VHS recorder.
- The recorder switches automatically to playback cassettes recorded only with the normal longitudinal sound track.


PR 05
14:22
STEREO
PR 04
14:22
🔈1 2

Select sound with **AUDIO TRACK** (AV)


STEREO
🔈1
LEFT
🔈2
RIGHT
NORM
MONO
STEREO
+ NORM
MIX
HIFI
Normal

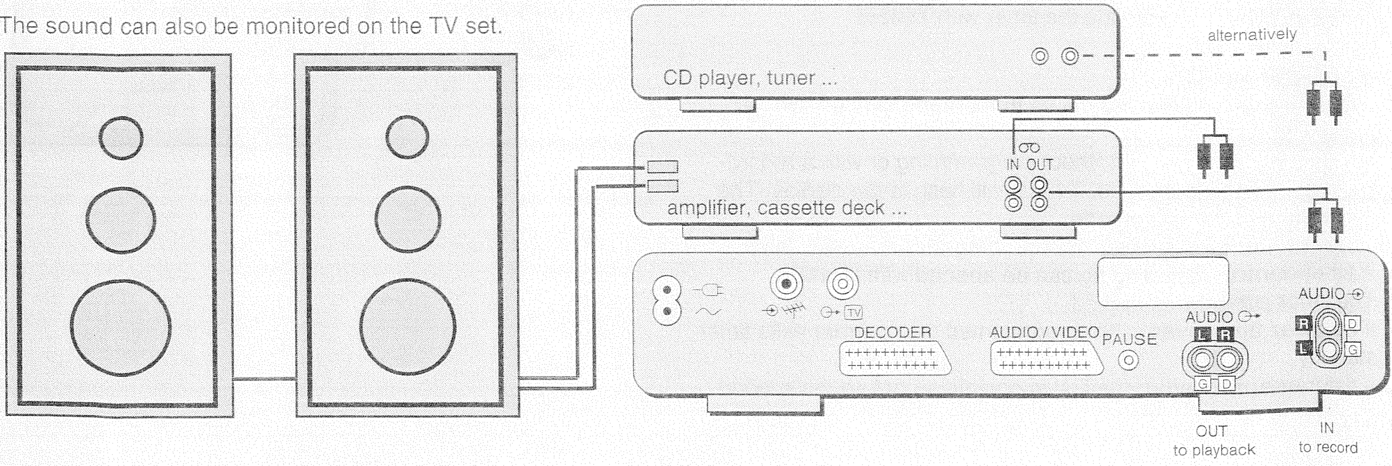
Connect the video recorder with your HIFI system

Your HIFI video recorder is connected up like a cassette recorder for high quality recording of various sources, e.g. CD players, tuners, cassette decks, DAT recorders etc. (if you wish with timer-control).

Use Cinch cables (or special cable supplied by your dealer):

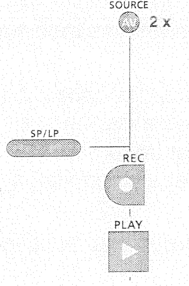
for recording AUDIO IN -⊕ (VCR) to AUDIO OUT (HIFI system)
for playback AUDIO OUT ⊖→ (VCR) to AUDIO IN (HIFI system)

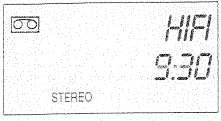
The sound can also be monitored on the TV set.

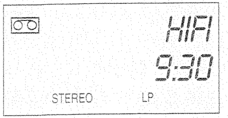

alternatively
CD player, tuner ...
IN OUT
amplifier, cassette deck ...
TV
DECODER
AUDIO / VIDEO
PAUSE
AUDIO ⊖→
L R
G D
AUDIO -⊕
R D
L G
OUT
to playback
IN
to record

HIFI sound recording

Select function "*HIFI*" with **PROG. SOURCE 2x** to record from a sound source which is connected to the AUDIO input -⊕.







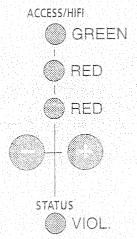
To record extremely long recordings you can double the cassette capacity by activating Longplay (LP) with **SP/LP**.

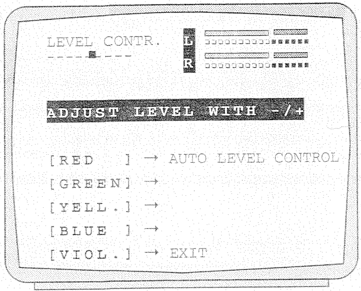
Start recording with **REC** and **PLAY**.

For short interruptions press **PAUSE**, recommence with **PLAY**.

Adjusting HiFi sound level manually

When recording TV sound the automatic control system produces excellent results, but for certain signal sources, e.g. CDs, manual adjustment can improve the sound dynamics.





LEVEL CONTR.
L
R

ADJUST LEVEL WITH -/+

[RED] → AUTO LEVEL CONTROL
[GREEN] →
[YELL.] →
[BLUE] →
[VIOL.] → EXIT

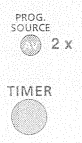
Call the sound menu using **GREEN** (ACCESS/HIFI) and **RED**.
Activate manual control with **RED** and adjust with **–** / **+** or **JOG disc** so that the signal peaks fall just inside the right hand section of the control display.

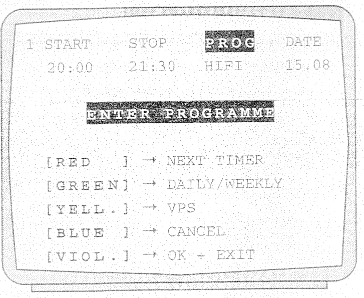
Monitor sound using head phones (page 40).
Leave the menu with **VIOLET** (STATUS).

When the recorder switches off it resets automatically.

Timer controlled HIFI sound recordings

If you wish to make a timer controlled recording of a future radio broadcast wire up your tuner to the video recorder, adjust the station and leave the tuner switched on. If the recorder is connected to your amplifier you must select tuner as source and leave both switched on (turn down the volume!).





1 START STOP PROG DATE
20:00 21:30 HIFI 15.08

ENTER PROGRAMME

[RED] → NEXT TIMER
[GREEN] → DAILY/WEEKLY
[YELL.] → VPS
[BLUE] → CANCEL
[VIOL.] → OK + EXIT

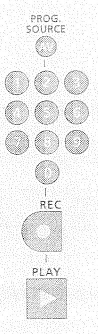
On the video recorder program a timer number with START and STOP time and select "PROG" "HIFI" with **PROG. SOURCE 2x** (page 47).

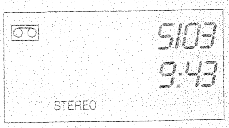
Do not forget to first load a suitable cassette and then switch on timer standby with **TIMER**.

Simultaneous ...

.. recording a TV programme with sound signals from the radio.

Some TV transmissions, in particular music transmissions, are broadcast simultaneously on radio channels. This provides better musical enjoyment because the UHF radio provides much better sound quality. Please check in your radio and TV schedules for such transmissions.





Select function "*SI*" with **PROG. SOURCE.**

Select the programme number of the broadcast with **DIGITAL NUMBERS**, **–** /**+** or the **JOG** disc.

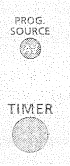
Adjust the station on your tuner or on your HIFI system and you hear the sound from the radio and see the picture on the TV.

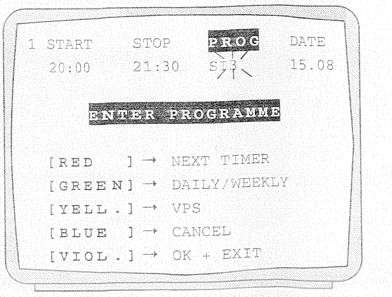
Start recording with **REC** and **PLAY**.

Timer controlled simultaneous ...

.. recording of TV and radio broadcasts.

Set up your equipment as described under "Timer controlled HIFI sound recordings".





1 START STOP PROG DATE
20:00 21:30 SI3 15.08

ENTER PROGRAMME

[RED] → NEXT TIMER
[GREEN] → DAILY/WEEKLY
[YELL.] → VPS
[BLUE] → CANCEL
[VIOL.] → OK + EXIT

On the video recorder program a timer number with START and STOP times. Select "SI" under "PROG" using **PROG SOURCE**. Enter afterwards the programme number (page 47).

Don't forget to first load a suitable cassette and then switch on timer standby with **TIMER**.

SPECIAL FEATURES

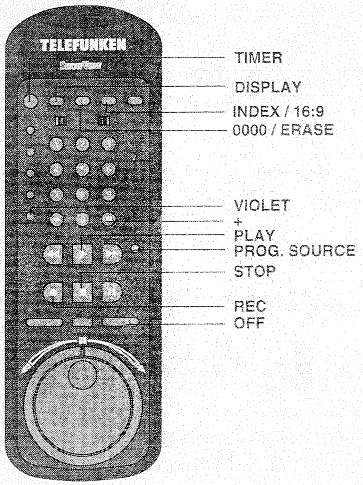
16 : 9

This video recorder is equipped to record programmes broadcast on the new TV wide picture format 16 : 9.

Films with this format have special electronic control codes. These control codes are used by the recorder to automatically adjust appropriately equipped TV sets to the right picture format. Prerequisite is that the recorder and the TV set are connected with an AV cable (page 34).

If you wish to record broadcasts with 16 : 9 format you must first activate the electronic control code:
In record standby press **16 : 9** for **3 sec.**

STOP or **OFF** reset to standard picture format 4 : 3
(or **16 : 9** for **3 sec.** during record standby).


TELEFUNKEN
TIMER
DISPLAY
INDEX / 16:9
0000 / ERASE
VIOLET
+
PLAY
PROG. SOURCE
STOP
REC
OFF

External recording control

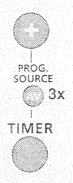
It is possible to control recordings on your VCR using external equipment connected to the AUDIO/VIDEO socket, e.g. a satellite receiver.

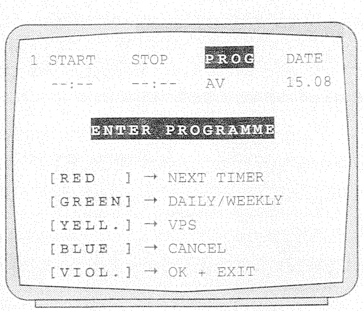
Choose a timer number without START and STOP times, only with "AV": after PROG, **PROG SOURCE 3x** after "AV".

Activate the timer with **TIMER**.

Check timer numbers to avoid timer events to collide with the external programme (page 47, timer standby).

The recorder starts recording as soon as the equipment activates and will switch off when the equipment switches off.


+
PROG. SOURCE
AV
3x
TIMER



1 START STOP PROG DATE
--:-- --:-- AV 15.08

ENTER PROGRAMME

[RED] → NEXT TIMER
[GREEN] → DAILY/WEEKLY
[YELL.] → VPS
[BLUE] → CANCEL
[VIOL.] → OK + EXIT

Display

In recorder mode REC, PLAY, STOP, PAUSE, REW or FFWD:

VIOLET (STATUS) displays the main features of the VCR on screen (on/off).

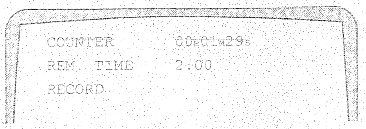
Press **DISPLAY** repeatedly to scroll through the time,

the counter
(reset to 00H00M00S with **0000** (ERASE),

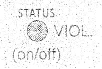
type of cassette,

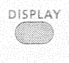
tape remain time,

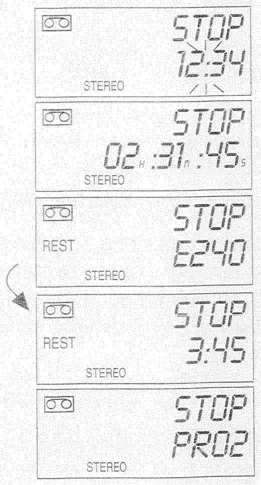
and TV programme number in the recorder display.



COUNTER 00H01M29S
REM. TIME 2:00
RECORD


STATUS
VIOL.
(on/off)



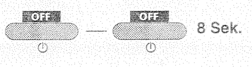

STOP
12:34
STEREO
STOP
02H:31M:45S
STEREO
STOP
REST
E240
STEREO
STOP
REST
3:45
STEREO
STOP
PR02
STEREO

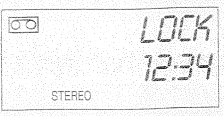
Child proof

Switch the recorder **OFF**.

Press **OFF** (hold **8 sec.**) to disable the recorder, it can only be reactivated from the remote control.

Keep the remote control in a safe place.


OFF
OFF
8 Sek.

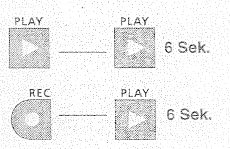

LOCK
12:34
STEREO

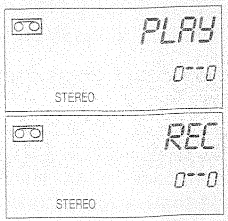
Continuous PLAY / RECORD

Start play by pressing **PLAY** and then press **PLAY** again for **6 sec.**: the recorder will play, rewind, play, rewind and so on.

Press **REC** and then **PLAY** for **6 sec.** and the recorder will record, rewind, record, rewind ...

Continuous playback between index marks, see page 43 "Search for index marks".


PLAY
PLAY
6 Sek.
REC
PLAY
6 Sek.


PLAY
0--0
STEREO
REC
0--0
STEREO

TV set control

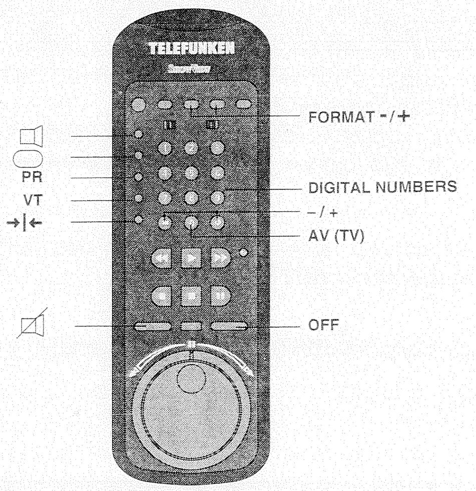
The remote control can also control some TV sets in our product range.
Check yourself whether your TV set reacts to the remote control.

Switch the remote control:

TV SET TV ▥ VIDEO RC VIDEO RECORDER

On TV sets with menu systems all keys necessary to control all functions are present on the video recorder remote control:

The keys for TV functions are colour coded.



Two video recorders with one remote control

- Both recorders are connected.
- Both recorders react simultaneously to the remote control.

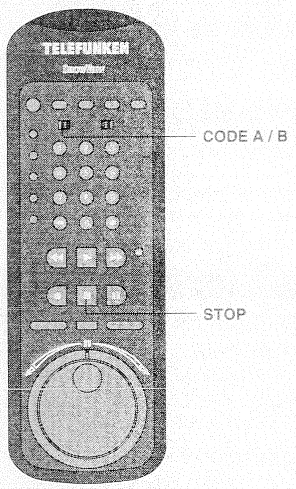
To control only one recorder with the remote control.

Select **CODE A** for first recorder
Disconnect mains plug of first recorder, reconnect mains plug and press **STOP**.

Select **CODE B** for second recorder.
Disconnect mains plug of second recorder, reconnect mains plug and press **STOP**.

Switching to **CODE A** controls the first recorder.

Switching to **CODE B** controls the second recorder

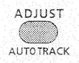


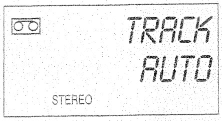
ADJUSTMENTS

Interference lines

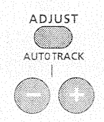
When your recorder starts to play the scanning heads are automatically aligned to the video tracks on the tape (tracking).
It is possible that certain cassettes (because of quality, recorded on other recorder,...) might lead to snowy interference lines on the screen.

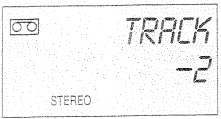
If this is the case the auto tracking feature can be activated during playback by pressing **ADJUST / AUTOTRACK.**


ADJUST
AUTOTRACK


TRACK
AUTO
STEREO

Or adjust tracking manually: **ADJUST / AUTOTRACK** and **– / +** (Normal position = 0):

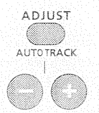

ADJUST
AUTOTRACK

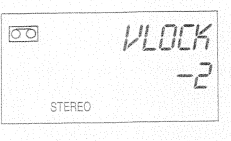

TRACK
-2
STEREO

Shaky still picture

A still picture can flicker when the recorder is first switched on or if a different TV set is connected.

When a still picture is being displayed correct the flicker by pressing: **ADJUST / AUTOTRACK** and **– / +**.

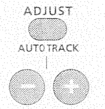

ADJUST
AUTOTRACK

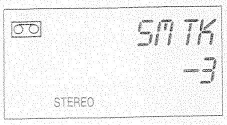

VLOCK
-2
STEREO

Slow motion with interference lines

The slow motion may have interference lines like those during play with a tracking error.

When in slow motion set the best picture:
ADJUST / AUTOTRACK and **– / +**.


ADJUST
AUTOTRACK

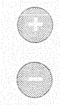

SM TK
-3
STEREO

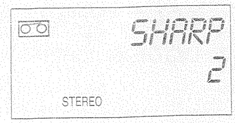
Picture sharpness and picture plus

During playback press **–** or **+**.

Make picture sharper with **+**.

Make picture softer with **–**.




SHARP
2
STEREO

Only adjust on poor quality recordings from middle position = "0".

In case of poor quality tape, rental cassettes, see menu "ACCESS/HIFI" (**GREEN**) and set adjustment "PICTURE PLUS....YES".

For advanced users INSTRUCTIONS IN BRIEF

Playing back a recorded VHS cassette

Press

Switches the video recorder on and starts playback when a cassette is loaded:

Sets an electronic index mark to help find again quickly.

If your hear incomprehensible mixture of sounds (bilingual recording) choose a sound track.

Shows current frame as still:

Hold down or repeat for frame by frame.

Variable slow motion from pause:

Adjust speed and direction by pressing appropriate button repeatedly.

Variable picture search from play:

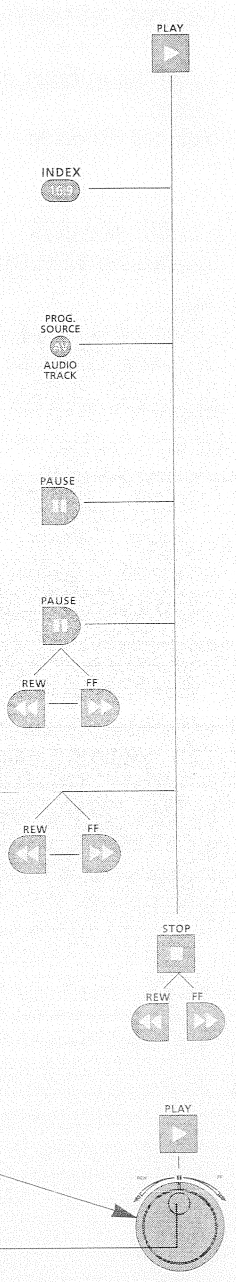
Adjust speed and direction by pressing appropriate button repeatedly.

STOP

Wind forward / rewind

SHUTTLE ring for:
- slow motion and picture search forwards / backwards

JOG disc for:
- frame by frame forwards / backwards


PLAY
INDEX
16:9
PROG.
SOURCE
AV
AUDIO
TRACK
PAUSE
PAUSE
REW
FF
REW
FF
STOP
REW
FF
PLAY

Search and find

Go to a counter position

if looking for position 00H00M00s

if target position ahead of 00H00M00s,

Enter 6 figure tape position

Go to a remain time:

Enter 4 figure time to end of tape.

Search for index marks:

If required, enter number of INDEX marks to be skipped.

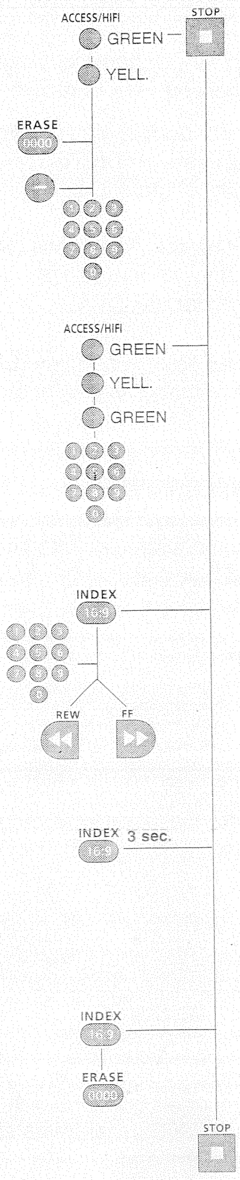
backwards or forwards

Index intro:

Shows approx. 15 sec. excerpt at index marks in picture search speed.

Erase index marks:

Go to index mark you wish to erase, see "Index Mark Search".
Recorder starts to play back and erases the next mark.


ACCESS/HIFI
GREEN
STOP
YELL.
ERASE
0000
ACCESS/HIFI
GREEN
YELL.
GREEN
INDEX
16:9
REW
FF
INDEX
3 sec.
16:9
INDEX
16:9
ERASE
0000
STOP

Adjustments

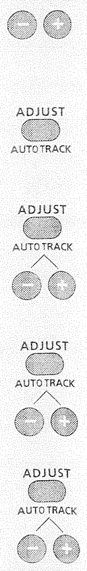
Playback - picture sharpness

Playback with interference lines?
Automatic tracking.

Playback with interference lines?
Manual tracking.

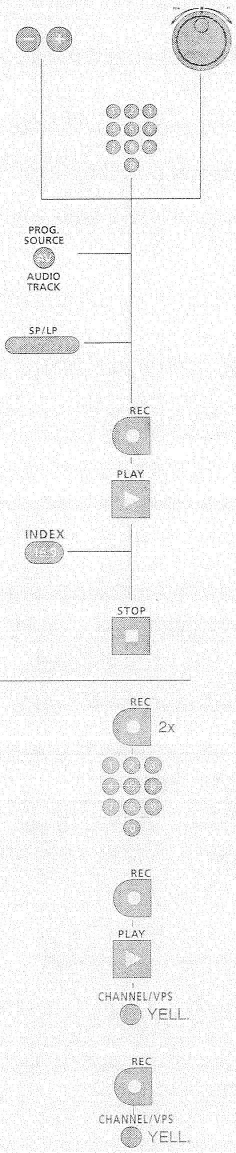
Still picture shaky?
Adjust picture.

Slow motion with interference lines?
Adjust for best picture.


ADJUST
AUTO TRACK
ADJUST
AUTO TRACK
ADJUST
AUTO TRACK
ADJUST
AUTO TRACK

For advanced users INSTRUCTIONS IN BRIEF

Recording


PROG.
SOURCE
AV
AUDIO
TRACK
SP/LP
REC
PLAY
INDEX
STOP
REC
2x
REC
PLAY
CHANNEL/VPS
YELL.
REC
CHANNEL/VPS
YELL.

Select TV programme number of channel you wish to record.

Enter double digit programme numbers on DIGITAL NUMBERS with "0" prefix (12 = 0 + 1 + 2).

Simultaneous recordings (SI), HIFI recordings or recordings from Camcorder etc. (AV).

You can select Longplay (LP) to double the recording capacity of a cassette.

Recording starts.

Set an additional electronic index mark to find tape position quickly.

STOP.

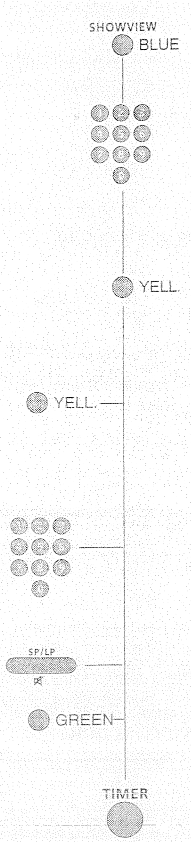
The recorder starts recording instantly and waits for you to enter stop time of recording.

Only for channels with VPS service:

The recorder starts recording immediately, stops recording at the end of the programme.

The recorder starts recording as soon as the next VPS programme starts and stops at the end.

SHOWVIEW

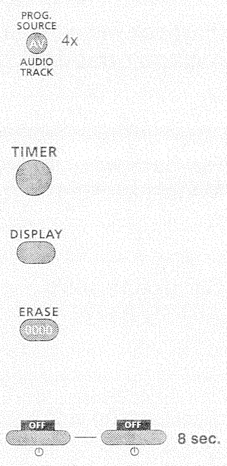

SHOWVIEW
BLUE
YELL.
YELL.
SP/LP
GREEN
TIMER

1. Call up the ShowView menu
2. Enter the number of the program exactly
   as in the TV guide.
3. Confirm the data
   by pressing **YELLOW**.

   VPS
   should be selected for channels offering this system because it starts and stops the recorder precisely with the program times.

   If you want to ...
   - extend the recording time to add on a safety margin for channels without VPS.
   - select Longplay (LP) to double the capacity of the cassette for long recordings, press **SP / LP**.
   - repeat the recording of a program weekly or daily.
4. You must set Timer standby
   by pressing **TIMER** on the remote control or on the recorder. The VCR is then protected against inadvertent changes and will make the recordings programmed.

Special features


PROG.
SOURCE
AV
4x
AUDIO
TRACK
TIMER
DISPLAY
ERASE
0000
OFF
OFF
8 sec.

Timer for TV:

Enter timer number details as usual.

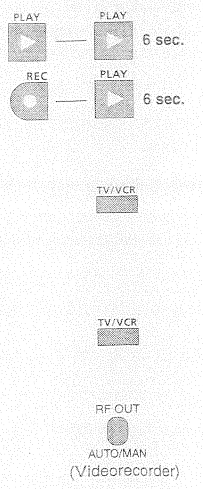
Except under "PROG" entry switch to "TV –" and enter programme number. Switch on timer standby with **TIMER**.

changes the recorder display.

00H00M00S if in counter displayed.

Child proof:

Recorder cannot be used without remote control.


PLAY
PLAY
6 sec.
REC
PLAY
6 sec.
TV/VCR
TV/VCR
RF OUT
AUTO/MAN
(Videorecorder)

Continuous playback

Continuous recording

AV connection to TV?
(De)activates AV input to TV.
Antenna cable to TV?

"TV" in recorder display:
Antenna → TV.

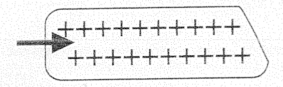
"VCR" in recorder display:
Video recorder → TV.

(**RF OUT** switch on "MAN" and TV set switched to video recorder programme number - page 35)

To dub a recording from a second video recorder or a Camcorder etc, you get best possible picture quality using the AUDIO/VIDEO (DECOD.) sockets on the back panel of your video recorder.
Connect the equipment using one of the following methods 1.) or 2.).

- Set the RECORDING-machine with a suitable cassette to RECORD standby.
- Set the PLAYBACK-machine (Camcorder etc.) to PLAY before the start of the scene you wish to dub.
- Switch on the RECORDING-machine at the right time.

BACK PANEL INPUT only!

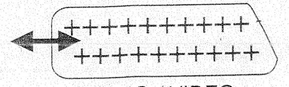


DECOD.

Selected by any TV programme number with decoder activated (page 37).

For video recorders, LaserDisc players, satellitte receivers, etc..., decoder for encoded programs.

BACK PANEL INPUT and OUTPUT



AUDIO / VIDEO

Select AV as INPUT with PROG. SOURCE AV 3x.

For TV sets, video recorders, LaserDisc players, satellite receivers, etc.

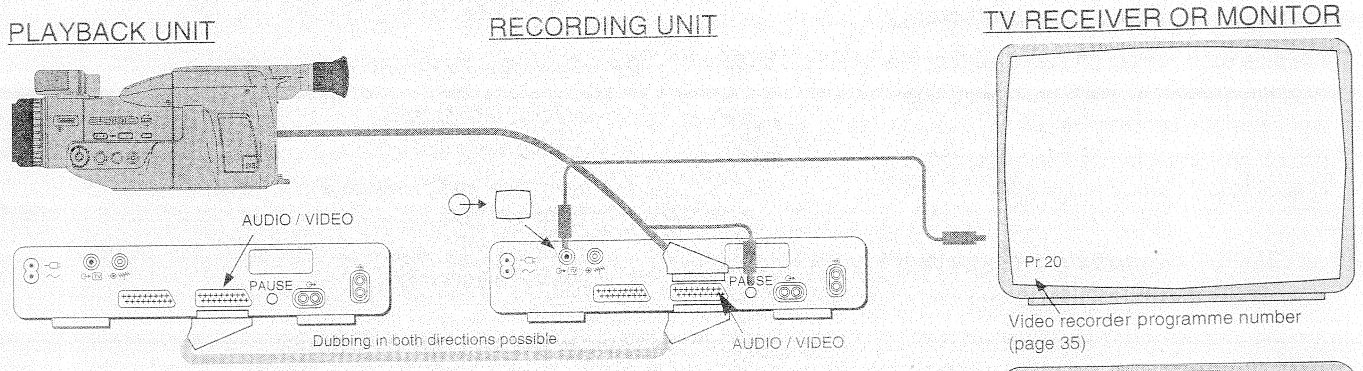
Always available as OUTPUT.

PAUSE socket:

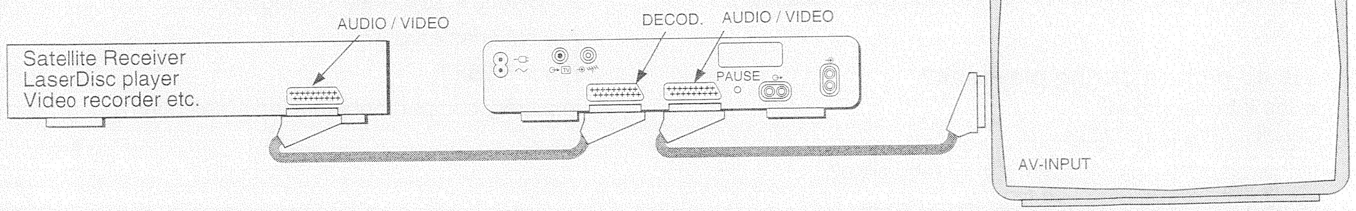
With some Camcorders the RECORD-standby of your video recorder can be controlled via the PAUSE socket.

The PAUSE connection is not the same on all Camcorders and video recorders.

1.)


PLAYBACK UNIT
RECORDING UNIT
TV RECEIVER OR MONITOR
AUDIO / VIDEO
PAUSE
Dubbing in both directions possible
PAUSE
AUDIO / VIDEO
Pr 20
Video recorder programme number (page 35)

2.)

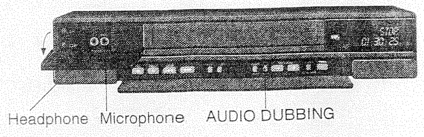

Satellite Receiver
LaserDisc player
Video recorder etc.
AUDIO / VIDEO
DECOD.
AUDIO / VIDEO
PAUSE
AV-INPUT

Audio dubbing...

... adds a new NORMal sound track to a video recording with HiFi sound. During playback you can listen to this together with the HiFi tracks (MIX, STEREO + NORM) or individually; make choice with **AUDIO TRACK**.

! If played back on non-HiFi recorders only the dubbed track will be audible.

PROG. SOURCE AUDIO TRACK

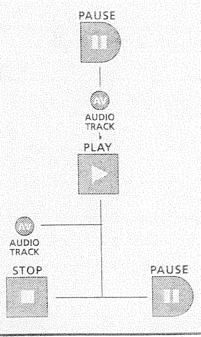

Headphone
Microphone
AUDIO DUBBING

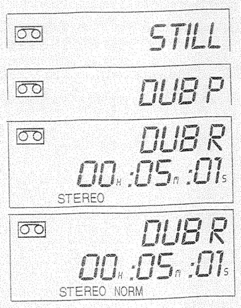
Connect the cassette player, CD player etc. to the audio input AUDIO or a microphone to the MICRO socket (monitor sound via headphones to ensure no feedback).

When you are ready, transport the tape on the recorder to that position at which audio dubbing is to start and press **PAUSE** for play pause (still).

Now press **PROG. SOURCE** (AUDIO DUBBING) for dubbing standby, check all equipment is correctly connected and start dubbing with **PLAY**.

During this procedure it is best to have **AUDIO TRACK** set to MIX (HIFI + NORM) in order to correctly monitor the original sound track and the dubbing.


PAUSE
AUDIO TRACK
PLAY
AUDIO TRACK
STOP
PAUSE


STILL
DUB P
DUB R
00H :05m :01s
STEREO
DUB R
00H :05m :01s
STEREO NORM

WHAT TO DO IF ...

(Before calling a specialist) see also page:

Your TV reception is poor?

- Switch VCR back to "TV-mode" by pressing **TV / VCR** or **OFF** 35

recording doesn't work?

- Is a record-protected cassette loaded? 30/44
- Is programme source "AV" or "HIFI" selected? 44
- Are the channels set on the video recorder? 36

the TV Programme number won't adjust?

- Is there a recording in progress?

timer controlled recordings don't work?

- Are time/date correct on the video recorder? 38
- Was timer menu properly completed and timer standby set with **TIMER** 46/47
- Is a record-protected cassette loaded? 30/47
- Is the cassette about to run out?

HIFI or SIMULTANeous recordings don't work?

- Are the AUDIO ⊕ connections OK? 48

there is no sound during playback?

- Have you made a simultaneous recording by mistake?

there is no picture during playback?

- Is the tape recorded? Check with another cassette.
- Is the cassette recorded with a HIFI recording?
- Is the TV set switched to the video recorder Programme number or "AV"? 35
- Is the video recorder Programme number on the TV set correctly adjusted? 35
- Is the antenna output switched off? Check **RF OUT** and **TV / VCR**? 35

picture quality is poor during playback?

- Is a poor quality cassette loaded (worn tape)? Check with another cassette.
- Although your VCR has an automatic head cleaning feature, poor quality tape together with dust and dampness will eventually contaminate the video head. Check with your dealer.
- Is the video recorder Programme number on the TV set correctly adjusted? 35
- On prerecorded cassettes (rental cassettes) possibly adjust tracking. 52
- Picture sharpness / picture plus 52

you have poor quality still pictures and slow motion frames?

- Adjust as necessary 52

the tape does not transport backwards or forwards?

- Is the tape already at start or end? (Check cassette).

sound is incomprehensible?

- Have you recorded a film using BILINGUAL feature? 40
- Have you selected MIX by mistake (STEREO and NORM simultaneously)? Use **SOUND TRACK** to select the right sound 40

the video recorder will not work?

- Is power connected?
- Is child proof active? 50
- Is recorder in timer-standby? Press **TIMER** 46/47
- If all else fails, remove power cable from mains for approx. 30 seconds.

remote control doesn't work?

- Is remote control switched to "TV"? 51
- A - B code inadvertently changed? 51
- Are batteries empty?
- Press **RESET** in battery compartment (behind small hole) 30

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16 : 9 50

Technical data

Mains	220 – 240 V ±10 %, 50 / 60 Hz
Power consumption	approx. 30 W operation / 9 W standby
Dimensions (W / H / D)	398 x 85 x 338 mm
Recording system	Rotating four head system Dual Azimuth, 2 HIFI heads, Automatic video head cleaner
Tuner	PLL, all channels, PAL B/G, sound system A2 Germ./NICAM, Hyperband (8 MHz), 99 programme numbers + AV, VPS
Antenna	75 Ohm coaxial
Ambient operating conditions	+ 5°C up to + 40°C max. 80 % air humidity

This equipment complies with EEC guide lines 76/889, 82/499, and 87/308 and IEC standard issue number 65.

Right to make changes is reserved.